

**SUPPLEMENTARY MATERIAL for**

**Clerodane Diterpenes: Sources, Structures, and Biological Activities**

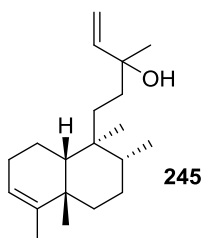
*Rongtao Li<sup>a,b\*</sup>, Susan L. Morris-Natschke<sup>b</sup>, and Kuo-Hsiung Lee<sup>b,c\*</sup>*

**CONTENT:**

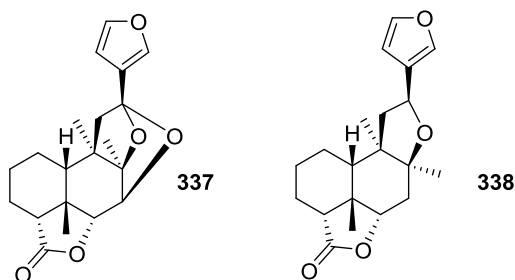
**Structures of Clerodane Diterpenes arranged by Source**

**Abbreviations for Functional Groups**

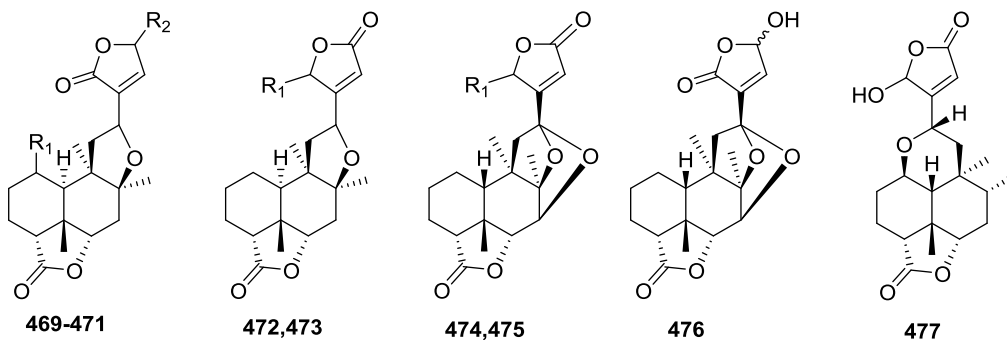
**ADELANTHUS Genus**



<b>245</b>	13-hydroxy- <i>cis-ent</i> -cleroda-3,14-diene	<i>Adelanthus lindenbergianus</i>	<i>Phytochemistry</i> , 2004, <b>65</b> , 127–137
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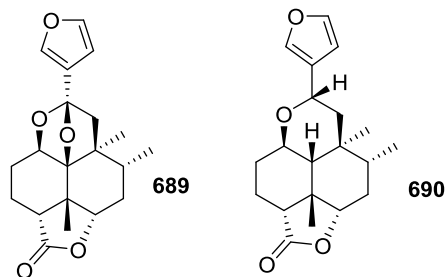


<b>337</b>	anastreptin	<i>Adelanthus lindenbergianus</i>	<i>Phytochemistry</i> , 2004, <b>65</b> , 127–137
<b>338</b>	8 $\beta$ ,12:15,16-diepoxy- <i>cis-ent</i> -cleroda-13(16),14-dien-18 $\alpha$ ,6 $\alpha$ -olide		



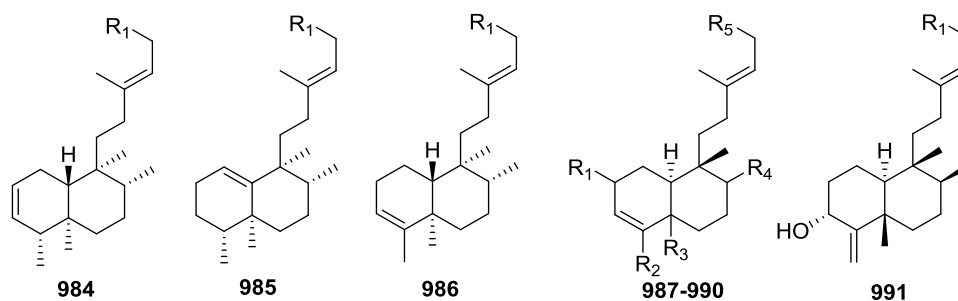
		R1	R2		
<b>469</b>	1 $\alpha$ -acetoxy-8 $\beta$ ,12-epoxy-15-hydroxy- <i>cis-ent</i> -cleroda-13-en-16,15:18 $\alpha$ ,6 $\alpha$ -diolide	$\alpha$ OAc	OH	<i>Adelanthus lindenbergianus</i>	<i>Phytochemistry</i> , 2004, <b>65</b> , 127–137
<b>470</b>	8 $\beta$ ,12-epoxy-15 $\alpha$ -hydroxy- <i>trans</i> -cleroda-13-en-16,15:18 $\alpha$ ,6 $\alpha$ -diolide	H	$\alpha$ OH		
<b>471</b>	8 $\beta$ ,12-epoxy-15 $\beta$ -hydroxy- <i>trans</i> -cleroda-13-en-16,15:18 $\alpha$ ,6 $\alpha$ -diolide	H	$\beta$ OH		
<b>472</b>	8 $\beta$ ,12-epoxy-16 $\alpha$ -hydroxy- <i>trans</i> -cleroda-13-en-15,16:18 $\alpha$ ,6 $\alpha$ -diolide	$\alpha$ OH	—		
<b>473</b>	8 $\beta$ ,12-epoxy-16 $\beta$ -hydroxy- <i>trans</i> -cleroda-13-en-15,16:18 $\alpha$ ,6 $\alpha$ -diolide	$\beta$ OH	—		
<b>474</b>	7 $\beta$ ,12:8 $\beta$ ,12-diepoxy-16 $\alpha$ -hydroxy- <i>cis-ent</i> -cleroda-13-en-15,16:18 $\alpha$ ,6 $\alpha$ -diolide	$\alpha$ OH	—		
<b>475</b>	7 $\beta$ ,12:8 $\beta$ ,12-diepoxy-16 $\beta$ -hydroxy- <i>cis-</i>	$\beta$ OH	—		

	<i>ent</i> -cleroda-13-en-15,16:18 $\alpha$ ,6 $\alpha$ -diolide				
476	7 $\beta$ ,12:8 $\beta$ ,12-diepoxy-15-hydroxy- <i>cis-ent</i> -cleroda-13-en-16,15:18 $\alpha$ ,6 $\alpha$ -diolide	—	—		
477	1 $\beta$ ,12-epoxy-16-hydroxy- <i>cis-ent</i> -cleroda-13-en-15,16:18 $\alpha$ ,6 $\alpha$ -diolide	—	—		



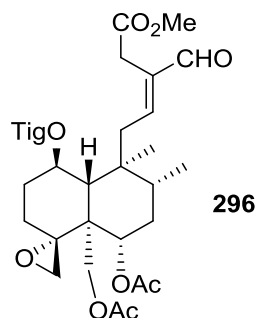
689	orcadensin	<i>Adelanthus lindenbergianus</i>	<i>Phytochemistry</i> , 2004, <b>65</b> , 127–137
690	1 $\beta$ ,12:15,16-diepoxy- <i>cis-ent</i> -cleroda-13(16),14-dien-18 $\alpha$ ,6 $\alpha$ -olide		

### AGELAS Genus

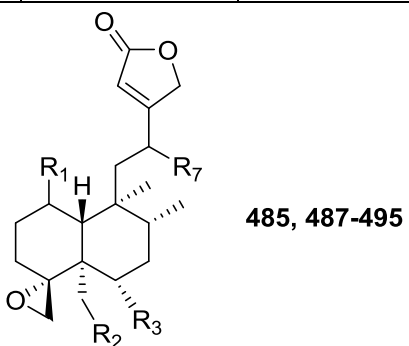


		R1	R2	R3	R4	R5		
984	agelasine K	Z <sub>7</sub>	—	—	—	—	<i>Agelas</i> cf. <i>mauritiana</i>	<i>J. Nat. Prod.</i> , 2008, <b>71</b> , 1451–1454
985	agelasine L	Z <sub>7</sub>	—	—	—	—		
986	axistatin 2	Z <sub>8</sub>	—	—	—	—	<i>Agelas axifera</i>	<i>J. Nat. Prod.</i> , 2013, <b>76</b> , 420-424
987	axistatin 1	H	Me	$\alpha$ Me	$\beta$ Me	Z <sub>8</sub>		
988	agelasine P	=O	CH <sub>2</sub> OZ <sub>5</sub>	$\alpha$ Me	$\beta$ Me	Z <sub>6</sub>	<i>Agelas</i> sp. (NSS-19)	<i>Tetrahedron</i> , 2012, <b>68</b> , 9738-9744
989	agelasine Q	H	CH <sub>2</sub> OZ <sub>5</sub>	$\alpha$ Me	$\alpha$ Me	Z <sub>6</sub>		
990	agelasine R	H	CH <sub>2</sub> OZ <sub>5</sub>	$\beta$ Me	$\beta$ Me	Z <sub>6</sub>		
991	agelasine U	Z <sub>6</sub>	—	—	—	—		

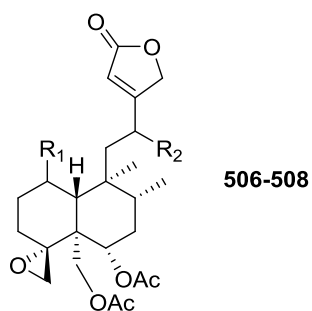
**AJUGA Genus**



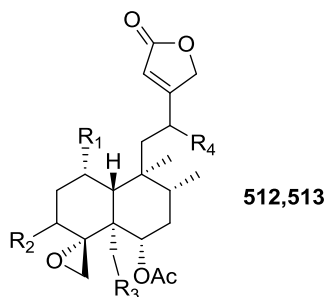
<b>296</b>	ajugacumbin J	<i>Ajuga decumbens</i>	<i>Nat. Prod. Res.</i> , 2014, <b>28</b> , 196-200
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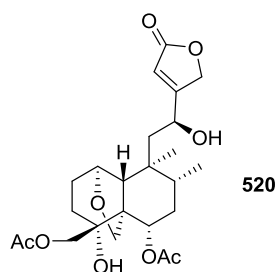
		R1	R2	R3	R7		
<b>485</b>	(12 <i>S</i> )-6 $\alpha$ -acetoxy-4 $\alpha$ ,18-epoxy-12-hydroxy-19-tigloyloxy- <i>neo</i> -clerod-13-en-15,16-olide	H	OTig	OAc	$\beta$ OH	<i>Ajuga ciliate</i>	<i>Phytochem. Lett.</i> , 2012, <b>5</b> , 563-566
<b>487</b>	ajugapantin A	$\beta$ OAc	OAc	OAc	$\alpha$ OAc	<i>Ajuga pantantha</i>	<i>Phytochemistry</i> , 1993, <b>34</b> , 1091-1094
<b>488</b>	ajugamacrin C	$\beta$ OiBu	OAc	OAc	$\alpha$ OiBu		
<b>489</b>	ajugamacrin D	$\beta$ OiBu	OAc	OAc	$\alpha$ OY <sub>1</sub>		
<b>490</b>	ajugamacrin E	$\beta$ Y <sub>1</sub>	OAc	OAc	$\alpha$ OiBu	<i>Ajuga macrosperma</i>	<i>Phytochemistry</i> , 1993, <b>33</b> , 887-889
<b>491</b>	ajugamacrin A	$\beta$ OAc	OAc	OAc	$\beta$ iBu		
<b>492</b>	ajugamacrin B	$\beta$ OAc	OAc	OAc	$\beta$ Y <sub>1</sub>	<i>Ajuga decumbens</i>	<i>Biosci. Biotechnol. Biochem.</i> , 1997, <b>61</b> , 1518-1522
<b>493</b>	ajugatakasin A	OTig	OAc	OAc	OTig		
<b>494</b>	ajugatakasin B	Y <sub>1</sub>	OAc	OAc	Y <sub>1</sub>		
<b>495</b>	ajugamarin L2	H	OTig	OH	H	<i>Ajuga nipponensis</i>	<i>Chin. Chem. Lett.</i> , 1995, <b>6</b> , 581-582



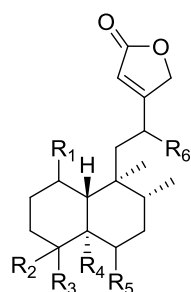
		R1	R2		
<b>506</b>	ajugalide A	$\beta$ OH	$\alpha$ OAc	<i>Ajuga taiwanensis</i>	<i>Chem. Pharm. Bull.</i> , 2005, <b>53</b> , 164-167
<b>507</b>	ajugalide B	$\beta$ OAc	$\alpha$ OH		
<b>508</b>	ajugalide C	H	$\alpha$ OH		



<b>512</b>	ajugacumbin E	OAc	$\beta$ OAc	$X_{12}$	H	<i>Ajuga decumbens</i>	<i>Chem. Pharm. Bull.</i> , 1990, <b>38</b> , 3167-3168
<b>513</b>	3 $\alpha$ -hydroxyajugamarin F4	H	$\alpha$ OH	OAc	$\beta Y_1$	<i>Ajuga reptans</i>	<i>Phytochemistry</i> , 1998, <b>47</b> , 1227-1232

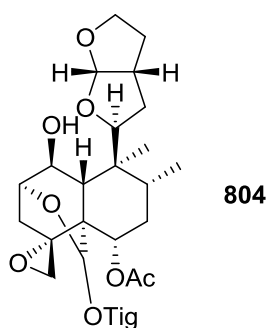
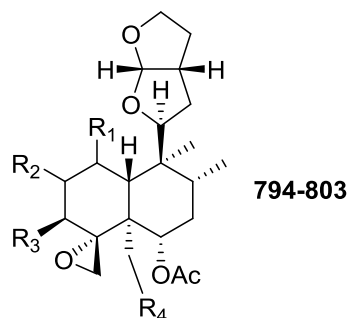


<b>520</b>	(12 <i>S</i> )-1 $\alpha$ ,19-epoxy-6 $\alpha$ ,18-diacetoxy-4 $\alpha$ ,12-dihydroxy- <i>neo</i> -clerod-13-en-15,16-olide					<i>Ajuga decumbens</i>	<i>Fitoterapia</i> , 2012, <b>83</b> , 1409-1414
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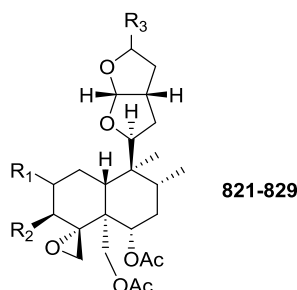


601-608

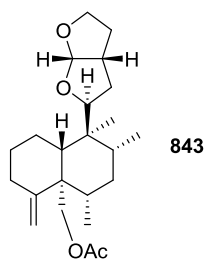
		R1	R2	R3	R4	R5	R6		
<b>601</b>	(12 <i>S</i> )-6 $\alpha$ ,18,19-tri-acetoxy-4 $\alpha$ ,12-dihydroxy-1 $\beta$ -tigloyloxy- <i>neo</i> -clerod-13-en-15,16-olide	$\beta$ OTig	$\beta$ CH <sub>2</sub> OAc	$\alpha$ OH	CH <sub>2</sub> OAc	$\beta$ OAc	$\beta$ OH	<i>Ajuga ciliate</i>	<i>Fitoterapia</i> , 2011, <b>82</b> , 1123-1127
<b>602</b>	ajugaciliatin I	H	$\beta$ CH <sub>2</sub> OAc	$\alpha$ OH	CH <sub>2</sub> OTig	$\beta$ OH	H		<i>J. Nat. Prod.</i> , 2011, <b>74</b> , 1575–1583
<b>603</b>	ajugaciliatin J	H	$\beta$ CH <sub>2</sub> OTig	$\alpha$ OH	CH <sub>2</sub> OH	$\beta$ OH	H		
<b>604</b>	(12 <i>S</i> )-18,19-diacetoxy-4 $\alpha$ ,6 $\alpha$ ,12-trihydroxy-1 $\beta$ -tigloyloxy- <i>neo</i> -clerod-13-en-15,16-olide	$\beta$ OTig	$\beta$ CH <sub>2</sub> OAc	$\alpha$ OH	CH <sub>2</sub> OAc	$\beta$ OH	$\beta$ OH	<i>Ajuga decumbens</i>	<i>Planta Med.</i> , 2012, <b>78</b> , 1579-1583
<b>605</b>	4 $\alpha$ ,6 $\alpha$ -dihydroxy-18-(4'-methoxy-4'-oxobutyryloxy)-19-tigloyloxy- <i>neo</i> -clerod-13-en-15,16-olide	H	$\beta$ CH <sub>2</sub> X <sub>7</sub>	$\alpha$ OH	CH <sub>2</sub> OTig	$\beta$ OH	$\beta$ H		
<b>606</b>	6 $\alpha$ ,18-diacetoxy-4 $\alpha$ -hydroxy-19-tigloyloxy- <i>neo</i> -clerod-13-en-15,16-olide	H	$\beta$ CH <sub>2</sub> OAc	$\alpha$ OH	CH <sub>2</sub> OTig	$\beta$ OAc	H	<i>Ajuga ciliate</i>	<i>Phytochem. Lett.</i> , 2012, <b>5</b> , 563-566
<b>607</b>	ajugalide D	H	H	$\alpha$ CO <sub>2</sub> Me	Me	$\alpha$ OH	$\alpha$ OH	<i>Ajuga taiwanensis</i>	<i>Chem. Pharm. Bull.</i> , 2005, <b>53</b> , 164-167
<b>608</b>	ajugacumbin F	H	$\beta$ CH <sub>2</sub> OH	$\alpha$ OH	CH <sub>2</sub> OTig	$\alpha$ OH	H	<i>Ajuga decumbens</i>	<i>Chem. Pharm. Bull.</i> , 1990, <b>38</b> , 3167-3168



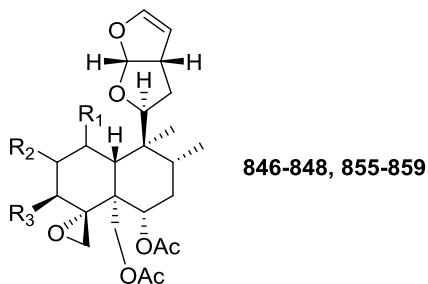
No.	Compound Name	R <sub>1</sub>	R <sub>2</sub>	R <sub>3</sub>	R <sub>4</sub>	Source	Ref.
794	lupulin F	H	αOH	OPr	OAc	<i>Ajuga lupulina</i>	<i>Indian J. Chem.</i> , 1999, <b>38B</b> , 743-745
795	ajubractin C	H	H	MeBuO	OAc	<i>Ajuga bracteosa</i>	<i>J. Nat. Prod.</i> , 2011, <b>74</b> , 1036-1041
796	ajubractin D	H	αOH	OiBu	OAc		
797	ajubractin E	H	H	OH	OAc		
798	areptin A	βOH	αOAc	Y <sub>1</sub>	OAc	<i>Ajuga reptans</i>	<i>Phytochemistry</i> , 1998, <b>49</b> , 2443-2447
799	ajugavensin A	βOY <sub>1</sub>	H	H	OAc	<i>Ajuga genevensis</i>	<i>Phytochemistry</i> , 1991, <b>30</b> , 4083-4085
800	ajugavensin B	αOTig	H	H	OAc		
801	ajugavensin C	βOH	H	H	OTig		
802	3β-hydroxy-ajugavensin B	αOTig	H	OH	OAc	<i>Ajuga reptans</i>	<i>Phytochemistry</i> , 1998, <b>47</b> , 1227-1232
803	ajugorientin	βOTig	H	OH	OAc	<i>Ajuga orientalis</i>	<i>Phytochemistry</i> , 1997, <b>45</b> , 121-123
804	ajugapyrin A	--	--	--	--	<i>Ajuga pyramidalis</i>	<i>Phytochemistry</i> , 1998, <b>47</b> , 303-305



		R1	R2	R3		
821	15-epi-lupulin B	αOH	MeBuO	αOMe	<i>Ajuga bracteosa</i>	<i>J. Nat. Prod.</i> , 2011, <b>74</b> , 1036-1041
822	lupulin A	αOH	Y1	βOMe	<i>Ajuga lupulina</i>	<i>J. Nat. Prod.</i> , 1996, <b>59</b> , 668-670
823	lupulin B	H	Y1	αOMe		
824	(15 <i>S</i> )-14,15-dihydro-15-hydroxyajugachin A	αOH	OiBu	βOH	<i>Ajuga salicifolia</i>	<i>Phytochemistry</i> , 1993, <b>34</b> , 1173-1175
825	(15 <i>R</i> )-14,15-dihydro-15-hydroxyajugachin A	αOH	OiBu	αOH		
826	14,15-dihydro-15-oxoajugachin A	αOH	OiBu	=O		
827	hativene A	αOH	OiBu	βOMe	<i>Ajuga pseudoiva</i>	<i>Fitoterapia</i> , 2000, <b>71</b> , 105-112
828	hativene B	αOH	OiBu	αOMe		
829	hativene C	βOH	OiBu	αOMe		

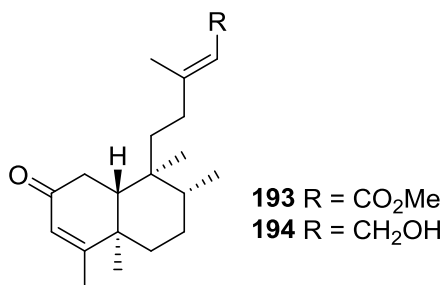


<b>843</b>	lupulin C	<i>Ajuga lupulina</i>	<i>J. Nat. Prod.</i> , 1996, <b>59</b> , 668-670
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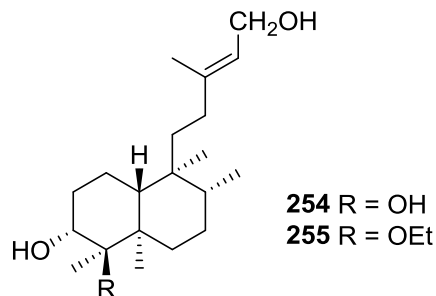
<b>846</b>	lupulin E	H	$\alpha$ OH	OPr	<i>Ajuga lupulina</i>	<i>Indian J. Chem.</i> , 1999, <b>38B</b> ,
<b>847</b>	ajugachin A	H	$\alpha$ OH	OiBu	<i>Ajuga chamaepitys</i>	<i>Phytochemistry</i> , 1990, <b>29</b> , 2931-2933
<b>848</b>	ajugachin B	H	$\alpha$ OH	Y <sub>11</sub>		
<b>855</b>	ajubractin A	H	H	MeBuO	<i>Ajuga bracteosa</i>	<i>J. Nat. Prod.</i> , 2011, <b>74</b> , 1036- 1041
<b>856</b>	ajubractin B	H	H	iBuO		
<b>857</b>	ajugapitin	H	$\alpha$ OH	MeBuO		
<b>858</b>	areptin B	$\beta$ OTig	H	OH	<i>Ajuga reptans</i>	<i>Phytochemistry</i> , 1998, <b>49</b> ,
<b>859</b>	14,15-	$\beta$ Y <sub>1</sub>	H	OH		<i>Phytochemistry</i> , 1998, <b>47</b> ,

### AMOORA Genus

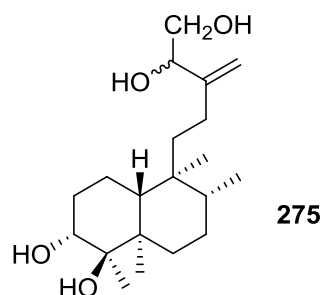


<b>193</b>	methyl(13E)-2-oxo-neocleroda-3,13-dien-15-oate	<i>Amoora yunnanensis</i>	<i>Helv. Chim. Acta</i> , 2004, <b>87</b> , 1279-1286
<b>194</b>	(13E)-2-oxoneocleroda-3,13-dien-15-ol		



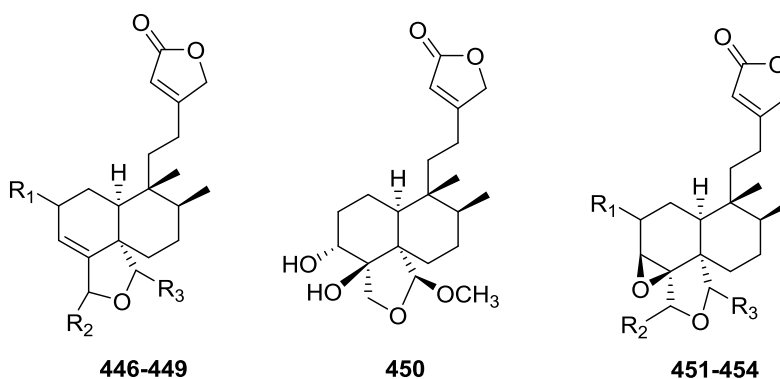


<b>254</b>	3 $\alpha$ ,4 $\beta$ ,13 <i>E</i> -neoclerod-13-ene-3,4,15-triol	<i>Amoora stellatosquamosa</i>	<i>Helv. Chim. Acta</i> , 2004, <b>87</b> , 1279-1286
<b>255</b>	3 $\alpha$ ,4 $\beta$ ,13 <i>E</i> -4-ethoxy-neoclerod-13-ene-3,15-diol		



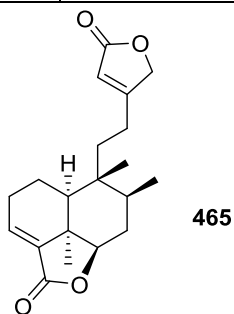
<b>275</b>	(3 $\alpha$ ,4 $\beta$ -14 <i>RS</i> )-neo-clerod-13(16)-ene-3,4,14,15-tetrol	<i>Amoora stellatosquamosa</i>	<i>Helv. Chim. Acta</i> , 2004, <b>87</b> , 1279-1286
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### AMPHIACHYRIS Genus

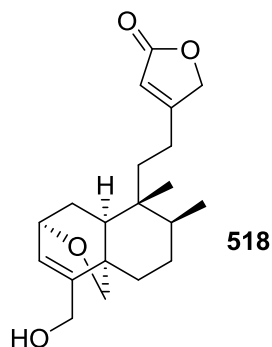


<b>446</b>	amphiacrolide A	H	H	=O	<i>Amphiachyris dracunculoides</i>	<i>J. Nat. Prod.</i> , 1990, <b>53</b> , 1312-1326 <i>J. Nat. Prod.</i> , 1996, <b>59</b> , 463-468 <i>J. Nat. Prod.</i> , 1996, <b>59</b> , 5-14
<b>447</b>	amphiacrolide B	H	=O	H		
<b>448</b>	amphiacrolide C	H	H	OH		
<b>449</b>	amphiacrolide L	$\beta$ OH	=O	H		
<b>450</b>	amphiacrolide J	—	—	—		
<b>451</b>	amphiacrolide D	H	H	OH		
<b>452</b>	amphiacrolide M	$\beta$ OH	H	$\beta$ OH		
<b>453</b>	amphiacrolide E	H	$\alpha$ OEt	$\alpha$ OH		

454	amphiacrolide I	H	$\alpha$ OMe	$\alpha$ OH		
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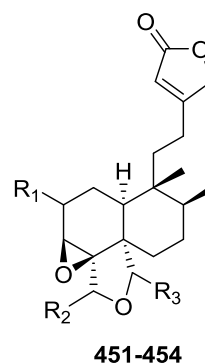
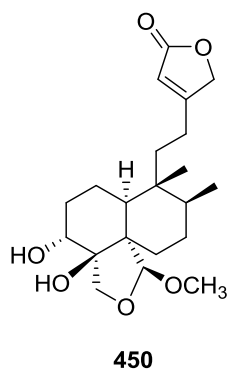
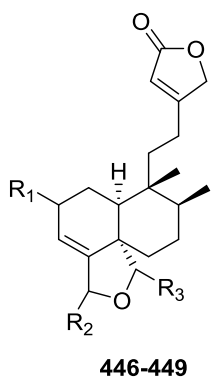


465	amphiacrolide F	<i>Amphiachyris dracunculoides</i>	<i>J. Nat. Prod.</i> , 1996, <b>59</b> , 5-14			
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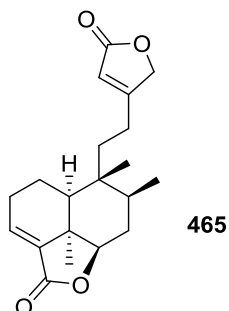
518	amphiacrolide K	<i>Amphiachyris dracunculoides</i>	<i>J. Nat. Prod.</i> , 1996, <b>59</b> , 463-468			
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### AMPHIACHYRIS Genus

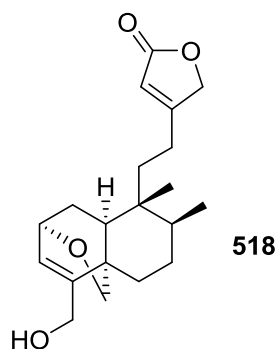


446	amphiacrolide A	H	H	=O	<i>Amphiachyris dracunculoides</i>	<i>J. Nat. Prod.</i> , 1990, <b>53</b> , 1312-1326
447	amphiacrolide B	H	=O	H		<i>J. Nat. Prod.</i> , 1996, <b>59</b> , 463-468
448	amphiacrolide C	H	H	OH		<i>J. Nat. Prod.</i> , 1996, <b>59</b> , 5-14
449	amphiacrolide L	$\beta$ OH	=O	H		

450	amphiacrolide J	—	—	—		
451	amphiacrolide D	H	H	OH		
452	amphiacrolide M	$\beta$ OH	H	$\beta$ OH		
453	amphiacrolide E	H	$\alpha$ OEt	$\alpha$ OH		
454	amphiacrolide I	H	$\alpha$ OMe	$\alpha$ OH		

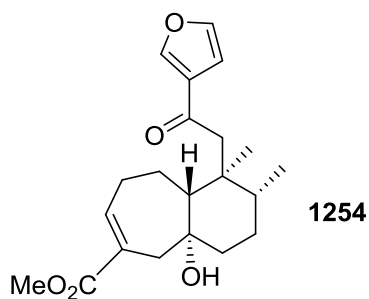


<b>465</b>	amphiacrolide F	<i>Amphiachyris dracunculoides</i>	<i>J. Nat. Prod.</i> , 1996, <b>59</b> , 5-14
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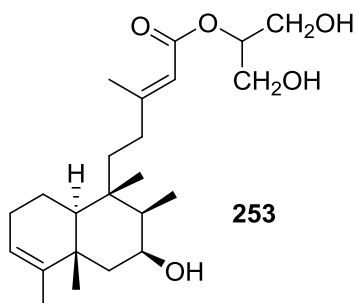
<b>518</b>	amphiacrolide K	<i>Amphiachyris dracunculoides</i>	<i>J. Nat. Prod.</i> , 1996, <b>59</b> , 463-468
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**APARISTHIUM Genus**

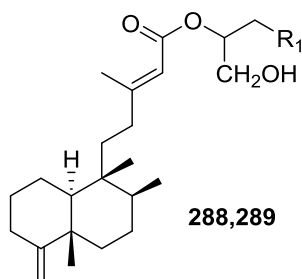


<b>1254</b>	aparisthman	<i>Aparisthium cordatum</i>	<i>Phytomedicine</i> , 2001, <b>8</b> , 94-100
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**AUSTRODORIS Genus**

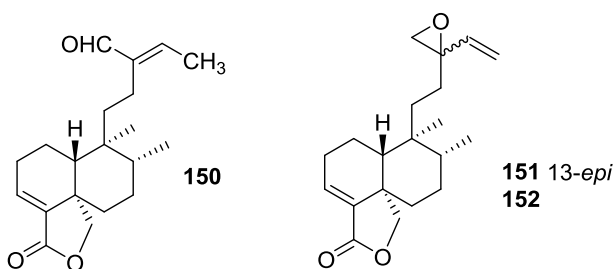


<b>253</b>	palmadorin C	<i>Austrodoris kerguelensis</i>	<i>J. Nat. Prod.</i> , 2010, <b>73</b> , 416–421
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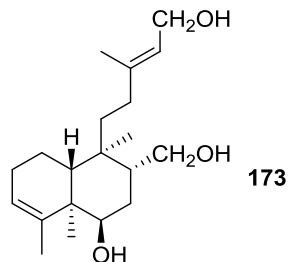


<b>288</b>	palmadorin A	OH	<i>Austrodoris kerguelensis</i>	<i>J. Nat. Prod.</i> , 2010, <b>73</b> , 416–421
<b>289</b>	palmadorin B	OAc		

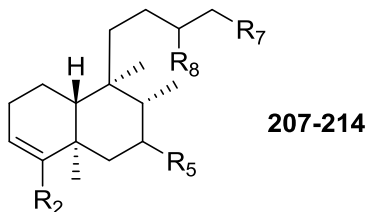
**BACCHARIS Genus**



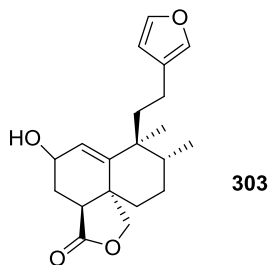
<b>150</b>	baclinal	<i>Baccharis linearis</i>	<i>Phytochemistry</i> , 1996, <b>41</b> , 1123-1127
<b>151</b>	13- <i>epi</i> -baclinepoxide		
<b>152</b>	baclinepoxide		



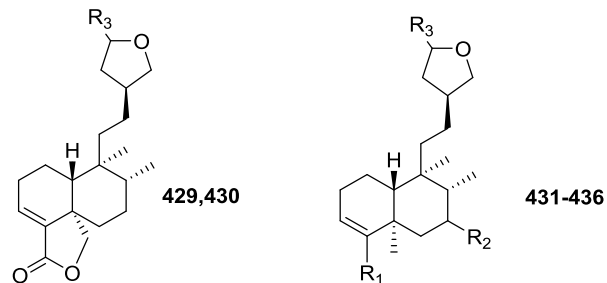
<b>173</b>	platypodiol	<i>Baccharis platypoda</i>	<i>Tetrahedron Lett.</i> , 2014, <b>55</b> , 4898-4900
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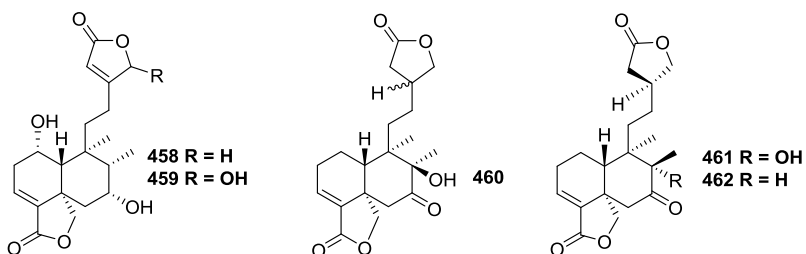
		R2	R5	R7	R8		
<b>207</b>	trinerdiol	CH <sub>2</sub> OH	H	CH <sub>2</sub> OH	Me	<i>Baccharis trinervis</i>	<i>Phytochemistry</i> , 1993, <b>34</b> , 1377-1384
<b>208</b>	15-acetyl-trinerdiol	CH <sub>2</sub> OH	H	CH <sub>2</sub> OAc	Me		
<b>209</b>	18-acetyl-trinerdiol	CH <sub>2</sub> OAc	H	CH <sub>2</sub> OH	Me		
<b>210</b>	18-methylmalonyl-trinerdiol	CH <sub>2</sub> OMe-Mal	H	CH <sub>2</sub> OH	Me		
<b>211</b>	15,18-diacetyl-trinertriol	CH <sub>2</sub> OAc	H	CH <sub>2</sub> OAc	CH <sub>2</sub> OH		
<b>212</b>	14,15,18-triacetyl-trinertetrol	CH <sub>2</sub> OAc	αOH	CH <sub>2</sub> OAc	CH <sub>2</sub> OAc		
<b>213</b>	15,16-diacetyl-trinertriol	CH <sub>2</sub> OH	H	CH <sub>2</sub> OAc	CH <sub>2</sub> OAc		
<b>214</b>	15-hydroxy-16-acetoxy-ent-clerod-3-en-18-oic acid	CO <sub>2</sub> H	H	CH <sub>2</sub> OH	CH <sub>2</sub> OAc	<i>Baccharis gaudichaudiana</i>	<i>Chem Pharm Bull</i> , 2007, <b>55</b> , 1532-1534



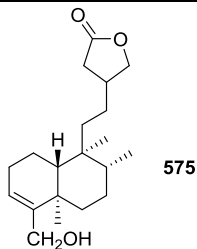
<b>303</b>	gaudichaudone	<i>Baccharis gaudichaudiana</i>	<i>J. Nat. Prod.</i> , 1994, <b>57</b> , 801-807
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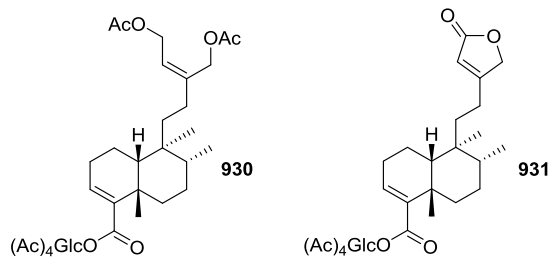
		R1	R2	R3		
429	trinerolide	—	—	$\alpha$ OMe	<i>Baccharis trinervis</i>	<i>Phytochemistry</i> , 1993, <b>34</b> , 1377-1384
430	15-epitrinerolide	—	—	$\beta$ OMe		
431	18-acetyl-7 $\alpha$ -hydroxy-epimethyltrineracetel	CH <sub>2</sub> OAc	$\alpha$ OH	$\beta$ OMe		
432	18-methylmalonyl-7 $\alpha$ -hydroxy-methyltrineracetel	CH <sub>2</sub> OMe-malo	$\alpha$ OH	$\alpha$ OMe		
433	18-methylmalonyl-7 $\alpha$ -hydroxy-epimethyltrineracetel	CH <sub>2</sub> OMe-malo	$\alpha$ OH	$\beta$ OMe	<i>Baccharis articulata</i>	<i>Phytochemistry</i> , 1993, <b>34</b> , 1087-1090
434	15,16-epoxy-7 $\alpha$ ,18-dihydroxy-15-methoxy- <i>ent</i> -clerod-3-ene	CH <sub>2</sub> OH	$\alpha$ OH	OMe		
435	15,16-epoxy-15 $\alpha$ -methoxy- <i>ent</i> -clerod-3-en-18-oic acid	COOH	H	$\alpha$ OMe	<i>Baccharis gaudichaudiana</i>	<i>J. Nat. Prod.</i> , 2006, <b>69</b> , 274-276
436	13- <i>epi</i> -15,16-epoxy-15 $\alpha$ -methoxy- <i>ent</i> -clerod-3-en-18-oic acid	COOH	H	$\beta$ OMe		



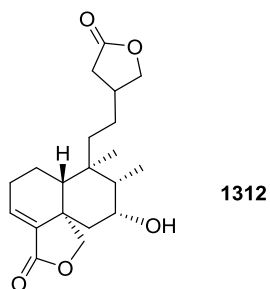
458	1 $\alpha$ ,7 $\alpha$ -dihydroxyneocleroda-3,13-dien-16,15:18,19-diolide	<i>Baccharis crispa</i>	<i>J. Nat. Prod.</i> , 1997, <b>60</b> , 490-492
459	1 $\alpha$ ,7 $\alpha$ ,15-trihydroxyneocleroda-3,13-dien-16,15:18,19-diolide		
460	8 $\beta$ -hydroxy-7-oxo- <i>ent</i> -cleroda-3-en-15,18-dilactone	<i>Baccharis articulata</i>	<i>Phytochemistry</i> , 1993, <b>34</b> , 1087-1090
461	gaudichanolide A	<i>Baccharis gaudichaudiana</i>	<i>J. Nat. Prod.</i> , 2005, <b>68</b> , 1121-1124
462	gaudichanolide B		



<b>575</b>	trinerolactone	<i>Baccharis trinervis</i>	<i>Phytochemistry</i> , 1993, <b>34</b> , 1377-1384
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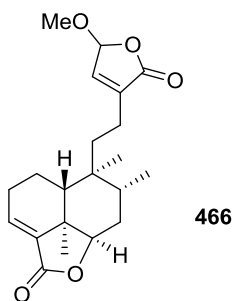


<b>930</b>	<i>cis</i> -cleroda-15,16-dihydroxy-3,13( <i>Z</i> )-dien-18- <i>O</i> -[ $\beta$ -D-galacto-pyranosyl]-peracetyylester	<i>Baccharis sagittalis</i>	<i>Phytochemistry</i> , 2002, <b>61</b> , 899-905
<b>931</b>	<i>cis</i> -cleroda-3,13(14)-dien-15,16-olide-18- <i>O</i> -[ $\beta$ -D-galacto-pyranosyl]-peracetyylester		



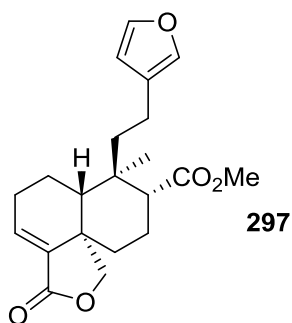
<b>1312</b>	--	<i>Baccharis trimeta</i>	<i>Phytochemistry</i> , 2000, <b>55</b> , 617-619
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### **BALLOTA Genus**

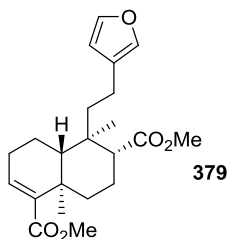


<b>466</b>	ballatenolide A	<i>Ballota limbata</i>	<i>Helv. Chim. Acta</i> , 2004, <b>87</b> , 682-689
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**BARRINGTONIA Genus**

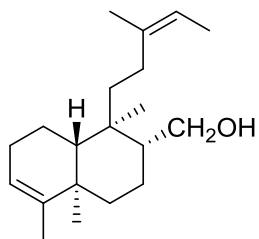


<b>297</b>	nasimalun A	<i>Barringtonia racemosa</i>	<i>J. Nat. Prod.</i> , 2000, <b>63</b> , 410-411
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<b>379</b>	nasimalun B	<i>Barringtonia racemosa</i>	<i>J. Nat. Prod.</i> , 2000, <b>63</b> , 410-411
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**BRAZILIAN PROPOLIS**

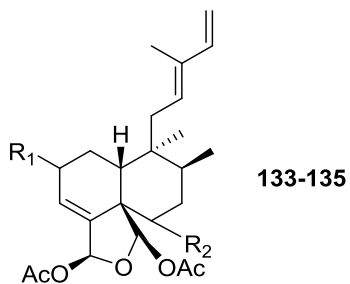


**203**

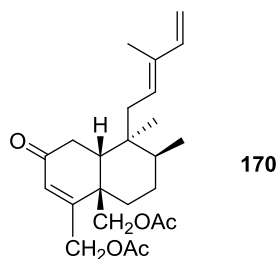
<b>203</b>	PMS-1	<i>Brazilian propolis</i>	<i>Anticancer Res.</i> , 1996, <b>16</b> , 2669-2672
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**BUCIDA Genus**

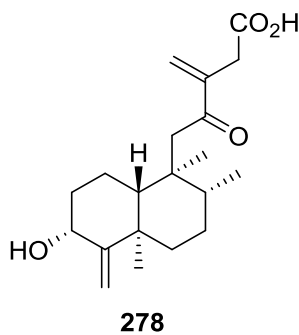


		R1	R2		
133	bucidasarin A	$\beta$ OiBu	$\beta$ OH	<i>Bucida buceras</i>	<i>Bioorg. Med. Chem. Lett.</i> , 2002, <b>12</b> , 345-348
134	bucidasarin B	$\beta$ Y <sub>1</sub>	$\beta$ OH		
135	bucidasarin C	$\beta$ OiBu	H		

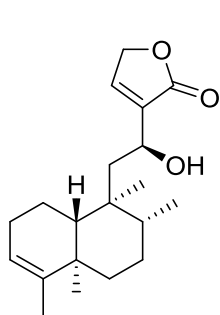


170	bucidasarin D	<i>Bucida buceras</i>	<i>Bioorg. Med. Chem. Lett.</i> , 2002, <b>12</b> , 345-348
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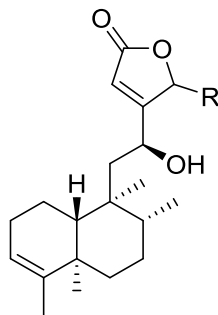
**CALLICARPA Genus**



278	pentandranoic acid C	<i>Callicarpa pentandra</i>	<i>J. Nat. Prod.</i> , 2000, <b>63</b> , 1062-1065
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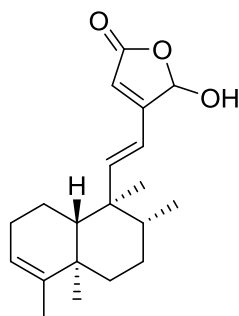


535



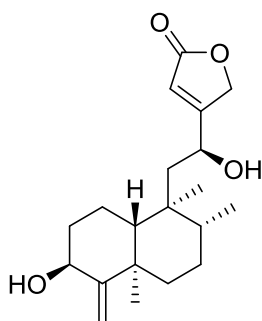
536-538

535	12( <i>S</i> )-hydroxycleroda-3,13-dien-16,15-olide	H	<i>Callicarpa americana</i>	<i>J. Nat. Prod.</i> , 2007, <b>70</b> , 372-377
536	12( <i>S</i> ),16 $\zeta$ -dihydroxycleroda-3,13-dien-15,16-olide	OH		
537	12( <i>S</i> )-hydroxy-16 $\zeta$ -methoxycleroda-3,13-dien-15,16-olide	OMe		
538	12( <i>S</i> )-hydroxycleroda-3,13-dien-15,16-olide	H		



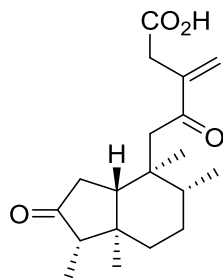
576

576	16 $\zeta$ -hydroxycleroda-3,11( <i>E</i> ),13-trien-15,16-olide	<i>Callicarpa americana</i>	<i>J. Nat. Prod.</i> , 2007, <b>70</b> , 372-377
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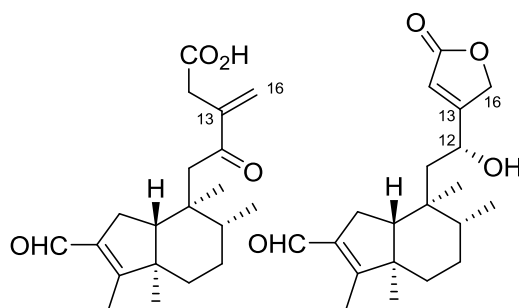
596

595	3 $\alpha$ ,12( <i>S</i> )-dihydroxy-cleroda-4(18),13-dien-15,16-olide	<i>Callicarpa americana</i>	<i>J. Nat. Prod.</i> , 2007, <b>70</b> , 372-377
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**1055**

<b>1055</b>	pentandranic acid B	<i>Callicarpa pentandra</i>	<i>J. Nat. Prod.</i> , 2000, <b>63</b> , 1062-1065
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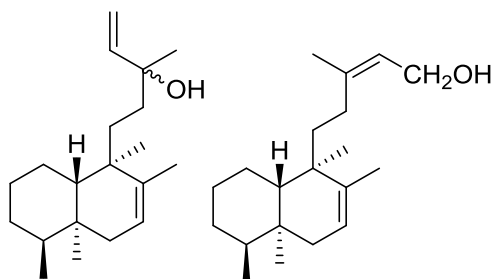


**1153**

**1154**

<b>1153</b>	pentandranic acid A	<i>Callicarpa pentandra</i>	<i>J. Nat. Prod.</i> , 2000, <b>63</b> , 1062-1065
<b>1154</b>	pentandralactone		

**CAREX Genus**

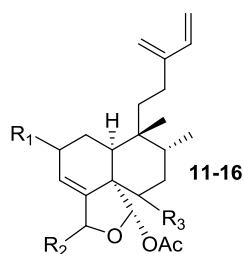
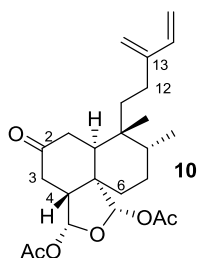


**270**

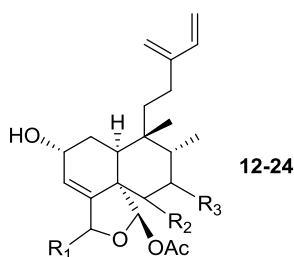
**271**

<b>270</b>	13-hydroxycyclohepta-7,14-diene	<i>Carex distachya</i>	<i>Nat. Prod. Commun.</i> , 2010, <b>5</b> , 1539-1542
<b>271</b>	15-hydroxycyclohepta-7,13-diene		

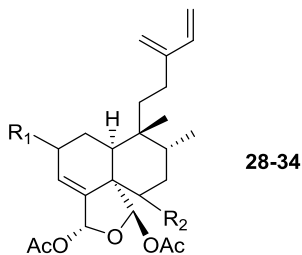
**CASEARIA Genus**



		R1	R2	R3		
<b>10</b>	balanspene A	—	—	—	<i>Casearia balansae</i>	<i>J. Nat. Prod.</i> , 2014, <b>77</b> , 2182–2189
<b>11</b>	balanspene B	=O	$\alpha$ OBu	H		
<b>12</b>	balanspene C	$\alpha$ Y <sub>1</sub>	$\alpha$ OBu	H		
<b>13</b>	balanspene D	$\alpha$ OBu	$\alpha$ OBu	$\alpha$ OMe		
<b>14</b>	balanspene E	$\alpha$ Y <sub>1</sub>	$\alpha$ OBu	$\alpha$ OMe		
<b>15</b>	balanspene F	$\alpha$ Y <sub>1</sub>	$\alpha$ OMe	$\alpha$ OMe		
<b>16</b>	balanspene G	$\beta$ OAc	$\alpha$ OMe	$\alpha$ OMe		

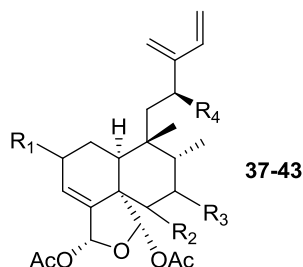


		R1	R2	R3		
<b>21</b>	casearupestrin A	$\alpha$ OAc	$\alpha$ X <sub>1</sub>	$\beta$ OH	<i>Casearia rupestris</i>	<i>J. Nat. Prod.</i> , 2011, <b>74</b> 776–781
<b>22</b>	casearupestrin B	$\alpha$ OAc	$\alpha$ OH	$\beta$ X <sub>1</sub>		
<b>23</b>	casearupestrin C	$\alpha$ OMe	$\alpha$ OH	$\beta$ X <sub>1</sub>		
<b>24</b>	casearupestrin D	$\alpha$ OAc	$\alpha$ OAc	$\beta$ X <sub>1</sub>		

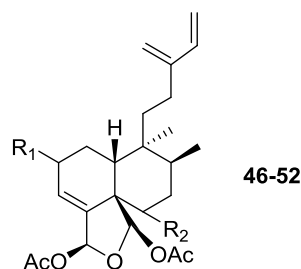


		R1	R2		
<b>28</b>	<i>ent</i> -6 $\beta$ -hydroxy-isozuelanin-2 $\beta$ -(2-methyl)butanoate	$\alpha$ Y <sub>1</sub>	$\alpha$ OH	<i>Casearia corymbosa</i>	<i>Phytochemistry</i> , 1990, <b>29</b> , 3591-3595
<b>29</b>	<i>ent</i> -6 $\beta$ -methoxy-isozuelanin-2 $\beta$ -(2-methyl)butanoate	$\alpha$ Y <sub>1</sub>	$\alpha$ OMe		
<b>30</b>	<i>ent</i> -2 $\beta$ -(2-methyl)butoxy-3,4-dihydro-4 $\alpha$ -isozuelanin	$\alpha$ Y <sub>1</sub>	H		

31	<i>ent</i> -6 $\beta$ -hydroxy-isozuelanin-2 $\beta$ -(2-methyl)propanoate	$\alpha$ OiBu	$\alpha$ OH		
32	<i>ent</i> -6 $\beta$ -methoxy-isozuelanin-2 $\beta$ -(2-methyl)propanoate	$\alpha$ OiBu	$\alpha$ OMe		
33	<i>ent</i> -2 $\beta$ -hydroxy-3,4-dihydro-4 $\alpha$ -isozuelanin	$\alpha$ OH	H		
34	<i>ent</i> -2 $\beta$ -acetoxy-3,4-dihydro-4 $\alpha$ -isozuelanin	$\alpha$ OAc	H		

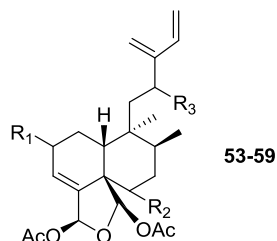


		R1	R2	R3	R4		
37	caseanigrescen A	$\alpha$ OBu	$\alpha$ OH	$\beta$ OAc	H	<i>Casearia nigrescens</i>	<i>J. Nat. Prod.</i> , 2007, <b>70</b> , 206-209
38	caseanigrescen B	$\alpha$ OBu	$\alpha$ OH	$\beta$ OH	H		
39	caseanigrescen C	$\alpha$ OBu	$\alpha$ OAc	$\beta$ OH	H		
40	caseanigrescen D	$\alpha$ OBu	$\alpha$ OH	H	H		
41	argutin F	$\alpha$ X <sub>1</sub>	OH	$\beta$ H	OOH	<i>Casearia arguta</i>	<i>J. Nat. Prod.</i> , 2010, <b>73</b> , 2013-2018
42	argutin G	$\alpha$ X <sub>1</sub>	OH	$\beta$ OH	OOH		
43	argutin H	$\alpha$ OH	X <sub>1</sub>	$\beta$ OH	OOH		

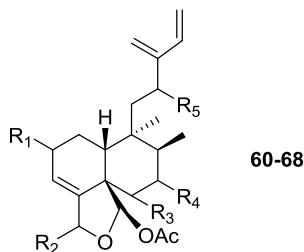


		R1	R2		
46	<i>rel</i> -18( <i>S</i> ),19( <i>R</i> )-diacetoxy-18,19-epoxy-6( <i>R</i> )-methoxy-2( <i>S</i> )-(2 $\zeta$ -methylbutanoyloxy)-5( <i>R</i> ),8( <i>S</i> ),9( <i>S</i> ),10( <i>R</i> )-cleroda-3,13(16),14-triene	$\beta$ Y <sub>1</sub>	$\beta$ OMe	<i>Casearia tremula</i>	<i>Phytochemistry</i> , 1996, <b>41</b> , 565-570
47	<i>rel</i> -18( <i>S</i> ),19( <i>R</i> )-diacetoxy-18,19-epoxy-2( <i>S</i> )-(2 $\zeta$ -methylbutanoyloxy)-5( <i>R</i> ),8( <i>S</i> ),9( <i>S</i> ),10( <i>R</i> )-cleroda-3,13(16),14-triene	$\beta$ Y <sub>1</sub>	$\beta$ H		
48	<i>rel</i> -18( <i>S</i> ),19( <i>R</i> )-diacetoxy-18,19-epoxy-6( <i>R</i> )-hydroxy-2( <i>S</i> )-(2 $\zeta$ -methylbutanoyloxy)-5( <i>R</i> ),8( <i>S</i> ),9( <i>S</i> ),10( <i>R</i> )-cleroda-3,13(16),14-triene	$\beta$ Y <sub>1</sub>	$\beta$ OH		
49	<i>rel</i> -18( <i>S</i> ),19( <i>R</i> )-diacetoxy-18,19-epoxy-6( <i>R</i> )-hydroxy-2( <i>S</i> )-undecanoyloxy-5( <i>R</i> ),8( <i>S</i> ),9( <i>S</i> ),10( <i>R</i> )-cleroda-3,13(16),14-triene	$\beta$ X <sub>2</sub>	$\beta$ OH		
50	<i>rel</i> -18( <i>S</i> ),19( <i>R</i> )-diacetoxy-18,19-epoxy-6( <i>R</i> )-hydroxy-2( <i>S</i> )-octanoyloxy-5( <i>R</i> ),8( <i>S</i> ),9( <i>S</i> ),10( <i>R</i> )-cleroda-	$\beta$ OOct	$\beta$ OH		

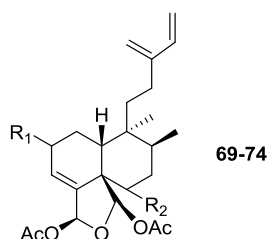
	3,13(16),14-triene				
<b>51</b>	<i>rel</i> -18( <i>S</i> ),19( <i>R</i> )-diacetoxy-18,19-epoxy-6( <i>R</i> )-hydroxy-2( <i>S</i> )-(3 $\zeta$ -hydroxyoctanoyloxy)-5( <i>R</i> ),8( <i>S</i> ),9( <i>S</i> ),10( <i>R</i> )-cleroda-3,13(16),14-triene	$\beta X_3$	$\beta OH$		
<b>52</b>	<i>rel</i> -18( <i>S</i> ),19( <i>R</i> )-diacetoxy-18,19-epoxy-2( <i>R</i> )-hexanoyloxy-5( <i>R</i> ),8( <i>S</i> ),9( <i>S</i> ),10( <i>R</i> )-cleroda-3,13(16),14-triene	$\alpha X_4$	H		



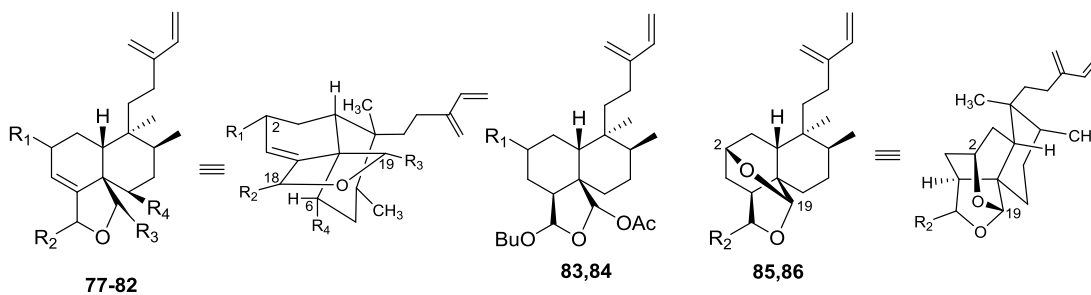
		R1	R2	R3		
<b>53</b>	casearlucin B	$\alpha OAc$	$\beta OMe$	H	<i>Casearia lucida</i>	<i>J. Nat. Prod.</i> , 2002, <b>65</b> , 100-107
<b>54</b>	casearlucin D	$\beta Y_1$	$\beta OAc$	H		
<b>55</b>	casearlucin H	$\beta Y_1$	$\beta OH$	$\alpha OH$		
<b>56</b>	casearlucin I	$\beta Y_1$	$\beta OH$	$\beta OH$		
<b>57</b>	casearlucin M	$\beta Y_1$	$\beta OMe$	H		
<b>58</b>	casearlucin J	$\alpha Y_1$	$\beta OH$	$\alpha OH$		
<b>59</b>	casearlucin K	$\alpha Y_1$	$\beta OH$	$\beta OH$		



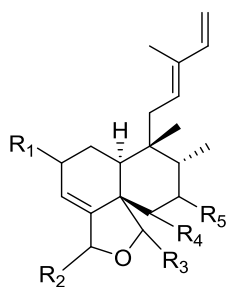
		R1	R2	R3	R4	R5		
<b>60</b>	caseamembrin A	$\beta Y_1$	$\beta OBU$	$\beta OH$	H	H	<i>Casearia membranacea</i>	<i>J. Nat. Prod.</i> , 2004, <b>67</b> , 316-321
<b>61</b>	caseamembrin B	$\beta Y_1$	$\beta OMe$	$\beta OH$	H	H		
<b>62</b>	caseamembrin C	$\beta Y_1$	$\beta OBU$	$\beta OH$	$\beta OH$	H		
<b>63</b>	caseamembrin D	$\beta Y_1$	$\beta OBU$	$\beta OH$	$\beta OAc$	H		<i>J. Nat. Prod.</i> , 2005, <b>68</b> , 1665-1668
<b>64</b>	caseamembrin E	$\alpha Y_1$	$\beta OAc$	$\beta OH$	H	H		
<b>65</b>	caseamembrin M	$\beta Y_1$	$\beta OAc$	$\beta OBU$	H	H		<i>Chem. Pharm. Bull.</i> , 2004, <b>52</b> , 108-110
<b>66</b>	caseamembrin N	$\beta Y_1$	$\beta OAc$	$\beta OH$	$\beta OAc$	H		
<b>67</b>	caseamembrin O	$\beta Y_2$	$\beta OAc$	$\beta OH$	$\beta OAc$	H		
<b>68</b>	caseamembrol B	$\alpha Y_1$	$\beta OAc$	$\beta OH$	H	$\beta OH$		



		R1	R2		
69	<i>rel</i> -2( <i>R</i> ),18( <i>S</i> ),19( <i>R</i> )-tri-acetoxy-18,19-epoxy-4( <i>S</i> ),5( <i>S</i> ),9( <i>S</i> ),10( <i>R</i> )-clerodan-13(16),14-dien-6-one	$\alpha$ OAc	=O	<i>Casearia grayi</i>	<i>Nat. Prod. Commun.</i> , 2006, <b>1</b> , 441-448
70	<i>rel</i> -2( <i>R</i> ),18( <i>S</i> ),19( <i>R</i> )-triacetoxy-18,19-epoxy-4( <i>S</i> ),5( <i>R</i> ),8( <i>S</i> ),9( <i>S</i> ),10( <i>R</i> )-clerodan-13(16),14-diene	$\alpha$ OAc	H		
71	<i>rel</i> -18( <i>S</i> ),19( <i>R</i> )-diacetoxy-18,19-epoxy-2( <i>R</i> )-(2 $\zeta$ -methylbutanoyl)-4( <i>S</i> ),-5( <i>S</i> ),9( <i>S</i> ),10( <i>R</i> )-clerodan-13(16),14-dien-6-one	$\alpha$ Y <sub>1</sub>	=O		<i>Biochem. Syst. Ecol.</i> , 2007, <b>35</b> , 631-633
72	<i>rel</i> -18( <i>S</i> ),19( <i>R</i> )-diacetoxy-18,19-epoxy-2( <i>R</i> )-isobutanoyl-4( <i>S</i> ),5( <i>R</i> ),9( <i>S</i> ),-10( <i>R</i> )-clerodan-13(16),14-diene	$\alpha$ OiBu	H		
73	<i>rel</i> -18( <i>S</i> ),19( <i>R</i> )-diacetoxy-18,19-epoxy-2( <i>R</i> )-(2 $\zeta$ -methylbutanoyl)-4( <i>S</i> ),5( <i>R</i> ),9( <i>S</i> ),10( <i>R</i> )-clerodan-13(16),14-diene	$\alpha$ Y <sub>1</sub>	H		
74	caseargrewiin A	$\beta$ Y <sub>2</sub>	$\beta$ OMe	<i>Casearia grewiifolia</i>	<i>J. Nat. Prod.</i> , 2005, <b>68</b> , 183-188
76	esculentin A	=O	H	<i>Casearia esculenta</i>	<i>Indian J. Chem.</i> , 2002, <b>41B</b> , 2706-2708

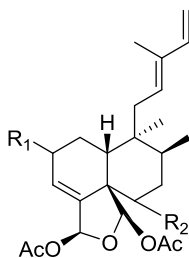


77	caseabalansin C	$\alpha$ OAc	OEt	OAc	OMe	<i>Casearia balansae</i>	<i>J. Nat. Prod.</i> , 2013, <b>76</b> , 1573-1579
78	2-epicaseabalansin C	$\beta$ OAc	OEt	OAc	OMe		
79	caseabalansin D	$\beta$ Y <sub>1</sub>	OEt	OAc	OH		
80	caseabalansin E	$\beta$ Y <sub>1</sub>	OMe	OH	OMe		
81	caseabalansin F	=O	OAc	OAc	OMe		
82	caseabalansin G	=O	OBu	OAc	OMe		
83	caseabalansin B	$\alpha$ OH	—	—	—		
84	2-epicaseabalansin B	$\beta$ OH	—	—	—		
85	caseabalansin A	—	$\beta$ OH	—	—		
86	18-epicaseabalansin A	—	$\alpha$ OH	—	—		



87-111

		R1	R2	R3	R4	R5		
87	casearvestrin A	$\beta$ OiBu	$\alpha$ OAc	$\alpha$ OAc	$\alpha$ OH	H	<i>Casearia sylvestris</i>	<i>J. Nat. Prod.</i> , 2002, <b>65</b> , 95-99
88	casearvestrin B	$\beta$ Y <sub>1</sub>	$\alpha$ OAc	$\alpha$ OAc	$\alpha$ OH	H		
89	casearvestrin C	$\beta$ X <sub>4</sub>	$\alpha$ OAc	$\alpha$ OAc	$\alpha$ OH	H		
90	argutin A	$\alpha$ X <sub>1</sub>	$\alpha$ OAc	$\alpha$ OAc	OH	H	<i>Casearia arguta</i>	<i>J. Nat. Prod.</i> , 2010, <b>73</b> , 2013-2018
91	argutin B	$\alpha$ OH	$\alpha$ OAc	$\alpha$ OAc	X <sub>1</sub>	H		
92	argutin C	$\alpha$ X <sub>1</sub>	$\alpha$ OAc	$\alpha$ OAc	OH	OH		
93	argutin D	$\alpha$ OH	$\alpha$ OAc	$\alpha$ OAc	X <sub>1</sub>	OH		
94	argutin E	$\alpha$ X <sub>1</sub>	$\alpha$ OAc	$\alpha$ OAc	H	OH		
95	esculentin B	$\alpha$ Y <sub>2</sub>	$\beta$ OAc	$\beta$ OAc	$\beta$ OH	$\alpha$ OH	<i>Casearia esculenta</i>	<i>Indian J. Chem.</i> , 2002, <b>41B</b> , 2706-2708
96	casearborin A	$\alpha$ Z <sub>1</sub>	$\alpha$ OAc	$\alpha$ OAc	$\alpha$ H	H	<i>Casearia arborea</i>	<i>J. Nat. Prod.</i> , 2000, <b>63</b> , 657-661
97	casearborin B	$\alpha$ Z <sub>2</sub>	$\alpha$ OAc	$\alpha$ OAc	$\alpha$ H	H		
98	casearborin C	$\alpha$ OH	$\alpha$ OAc	$\alpha$ OAc	$\alpha$ Z <sub>1</sub>	H		
99	casearborin D	$\alpha$ Z <sub>1</sub>	$\alpha$ OAc	$\alpha$ OAc	$\alpha$ OH	H		
100	casearborin E	$\alpha$ OAc	$\alpha$ OAc	$\alpha$ OAc	$\alpha$ Z <sub>1</sub>	H		
104	caseargrewiin E	$\alpha$ OBu	$\alpha$ OAc	$\alpha$ OAc	H	H	<i>Casearia grewiifolia</i>	<i>J. Nat. Prod.</i> , 2007, <b>70</b> , 1122-1126
105	caseargrewiin F	$\alpha$ OBu	$\alpha$ OAc	$\alpha$ OAc	$\alpha$ OH	H		
106	caseargrewiin G	$\alpha$ OBu	$\alpha$ OMe	$\alpha$ OAc	$\alpha$ OH	H		
107	caseargrewiin H	$\alpha$ X <sub>4</sub>	$\alpha$ OAc	$\alpha$ OAc	H	H		
108	caseargrewiin I	$\alpha$ X <sub>4</sub>	$\alpha$ OAc	$\alpha$ OAc	$\alpha$ OH	H		
109	caseargrewiin J	$\alpha$ X <sub>4</sub>	$\alpha$ OMe	$\alpha$ OAc	$\alpha$ OH	H		
110	caseargrewiin K	$\alpha$ X <sub>4</sub>	$\alpha$ OMe	$\alpha$ OAc	$\alpha$ OH	$\beta$ OH		
111	caseargrewiin L	$\alpha$ Y <sub>2</sub>	$\alpha$ OAc	$\alpha$ OAc	$\alpha$ OH	H		

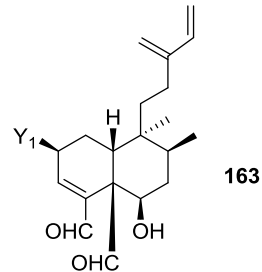
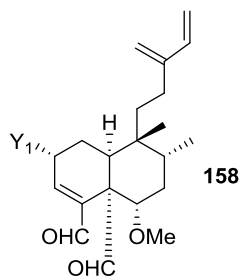
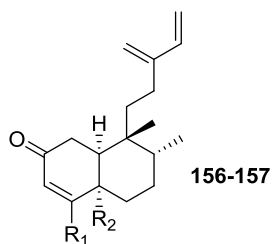


115-119, 127-128

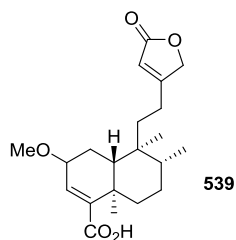
		R1	R2		
115	casearlucin A	$\beta$ Y <sub>1</sub>	$\beta$ OH	<i>Casearia lucida</i>	<i>J. Nat. Prod.</i> , 2002, <b>65</b> , 100-107



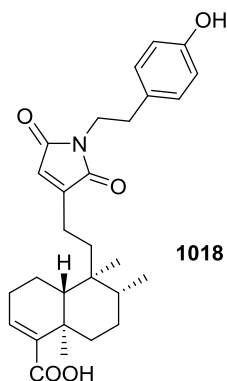
116	casearlucin C	$\beta Y_1$	$\beta OAc$		
117	casearlucin F	$\beta Y_1$	H		
118	casearlucin G	$\alpha Y_1$	H		
119	caseamembrol A	$\alpha Y_1$	$\beta OH$	<i>Casearia membranacea</i>	<i>Chem. Pharm. Bull.</i> , 2004, <b>52</b> , 108-110
127	caseobliquin A	$\alpha OAc$	$\beta Z_1$	<i>Casearia obliqua</i>	<i>J. Nat. Prod.</i> , 2009, <b>72</b> , 1847-1850
128	caseobliquin B	$\beta OAc$	$\beta OCin$		



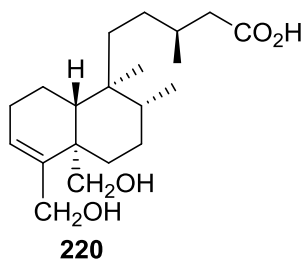
		R1	R2		
156	2-oxo-18-hydroxy-10 $\alpha$ ,17 $\alpha$ ,19 $\alpha$ ,20 $\beta$ -(-)-cleroda-3,13(16),14-triene	CH <sub>2</sub> OH	$\alpha Me$	<i>Casearia corymbosa</i>	<i>Phytochemistry</i> , 1990, <b>29</b> , 3591-3595
157	2-oxo-18,19-diacetoxy-10 $\alpha$ ,17 $\alpha$ ,19 $\alpha$ ,20 $\beta$ -(-)-cleroda-3,13(16),14-triene	CH <sub>2</sub> OAc	$\alpha CH_2OAc$		
158	balanspene H	—	—	<i>Casearia balansae</i>	<i>J. Nat. Prod.</i> , 2014, <b>77</b> , 2182-2189
163	caseamembrin F	—	—	<i>Casearia membranacea</i>	<i>J. Nat. Prod.</i> , 2004, <b>67</b> , 316-321



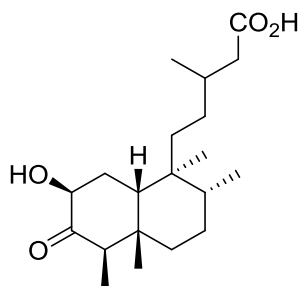
539	2 $\beta$ -methoxy-cleroda-3,13-dien-18-carboxy-15,16-olide	<i>Casearia sylvestris</i>	<i>Fitoterapia</i> , 2009, <b>80</b> , 404-407
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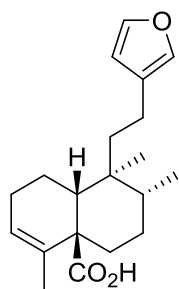
***CHRYSOCOMA* Genus**



<b>220</b>	18,19-dihydroxyclerod-3-en-15-oic acid	<i>Chrysocoma comaurea</i>	<i>Phytochemistry</i> , 1991, <b>30</b> , 607-609
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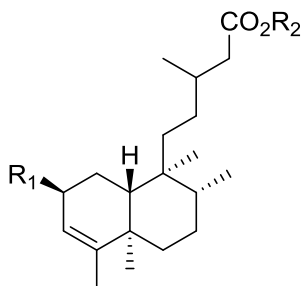


<b>261</b>	2β-hydroxy-3-oxo- <i>cis</i> -clerodan-15-oic acid	<i>Chrysocoma comaurea</i>	<i>Phytochemistry</i> , 1991, <b>30</b> , 607-609
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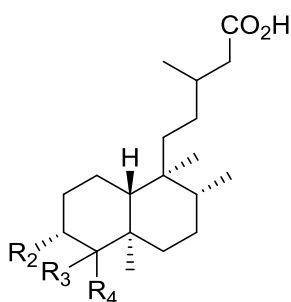
<b>413</b>	15,16-epoxy- <i>cis</i> -cleroda-3,13(16),14-trien-19-oic acid	<i>Chrysocoma comaurea</i>	<i>Phytochemistry</i> , 1991, <b>30</b> , 607-609
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**CLAUSENA Genus**



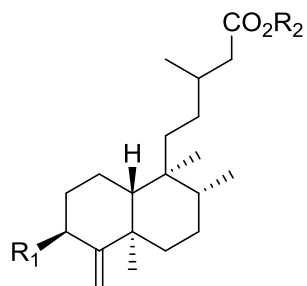
231 R1 = OCHO, R2 = H  
 232 R1 = OAc, R2 = H  
 233 R1 = H, R2 = Et

231	2β-(formyloxy)clerod-3-en-15-oic acid	<i>Clausena dunniana</i>	<i>Helv. Chim. Acta.</i> , 2003, <b>86</b> , 3187-3193
232	2β-(acetyloxy)clerod-3-en-15-oic acid		
233	ethyl clerod-3-en-15-oate		



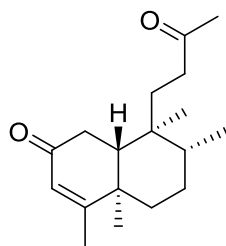
263 R2 = H, R3 = α-OH, R4 = β-CH<sub>2</sub>OH  
 264 R2 = H, R3 = β-OH, R4 = α-CH<sub>3</sub>  
 265 R2 = H, R3 = α-OH, R4 = β-CH<sub>3</sub>

263	4α,18-dihydroxyclerodan-15-oic acid	<i>Clausena dunniana</i>	<i>Helv. Chim. Acta.</i> , 2003, <b>86</b> , 3187-3193
264	4β-hydroxyclerodan-15-oic acid		
265	3α,4α-dihydroxy clerodan-15-oic acid		



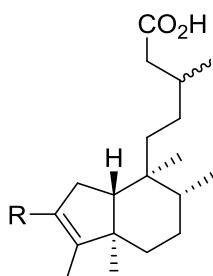
279 R1 = OH, R2 = H  
 280 R1 = H, R2 = Et

279	3β-hydroxy-clerod4(18)-en-15-oic acid	<i>Clausena dunniana</i>	<i>Helv. Chim. Acta.</i> , 2003, <b>86</b> , 3187-3193
280	ethyl-clerod-4(18)-en-15-oate		



**1088**

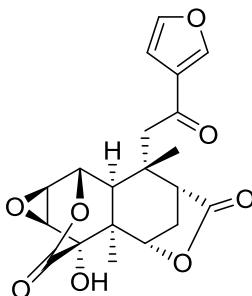
<b>1088</b>	14,15-dinorclerod-3-ene-2,13-dione	<i>Clausena dunniana</i>	<i>Helv. Chim. Acta.</i> , 2003, <b>86</b> , 3187-3193
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**1150** R = CO<sub>2</sub>H  
**1151** R = CHO

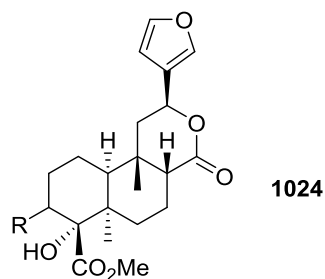
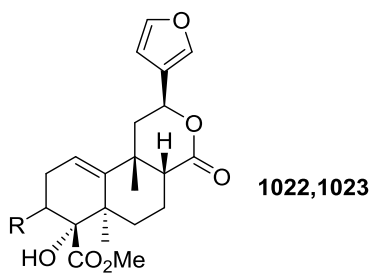
<b>1150</b>	dunniana acid A	<i>Clausena dunniana</i>	<i>J. Nat. Prod.</i> , 2002, <b>65</b> , 392-394
<b>1151</b>	dunniana acid B		

**CLEIDION Genus**



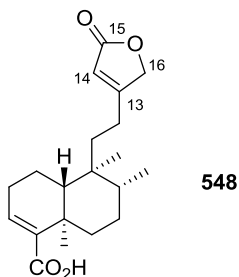
**342**

<b>342</b>	apiciflorin	<i>Cleidion spiciflorum</i>	<i>Phytochemistry</i> , 2006, <b>67</b> , 1029-1033
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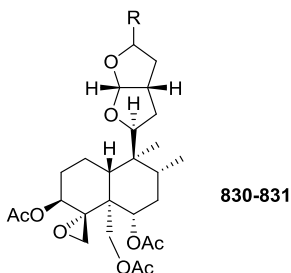


1022	cleidbrevoid A	$\beta$ T	<i>Cleidion brevipetiolatum</i>	<i>Fitoterapia</i> , 2012, <b>83</b> , 1100-1104
1023	cleidbrevoid B	$\alpha$ T		
1024	cleidbrevoid C	$\beta$ T		

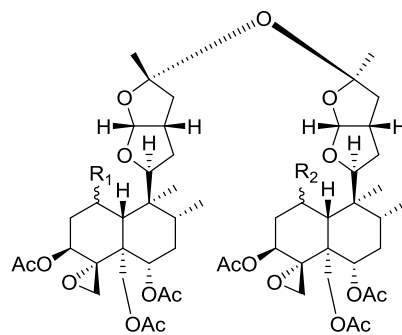
**CLERODENDRUM Genus**



548	clerodermic acid	<i>Clerodendrum inerme</i>	<i>Phytochemistry</i> , 1990, <b>29</b> , 3671-3673
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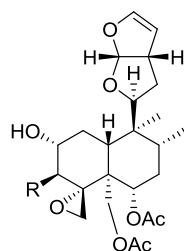


		R		
830	15-methoxy-14,15-dihydro-3-epicaryoptin	$\beta$ OMe	<i>Clerodendrum inerme</i>	<i>Phytochemistry</i> , 1992, <b>31</b> , 338-340
831	14,15-dihydro-15 $\beta$ -methoxy-3-epicaryoptin	OH		<i>Phytochemistry</i> , 2005, <b>66</b> , 643-648



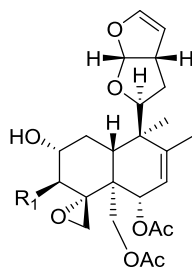
844,845

		R1	R2		
844	inerme A	H	H	<i>Clerodendrum inerme</i>	<i>Phytochemistry</i> , 2005, <b>66</b> , 643-648
845	inerme B	OMe/H	H/OMe		



849-851

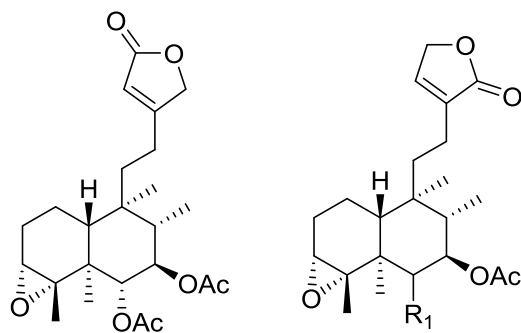
		R1		
849	clerodendrin B	Y <sub>3</sub>	<i>Clerodendrum inerme</i>	<i>Phytochemistry</i> , 1993, <b>34</b> , 572-574
850	clerodendrin C	Y <sub>10</sub>		
851	clerodendrin H	Y <sub>7</sub>	<i>Clerodendrum trichotomum</i>	<i>Phytochemistry</i> , 1998, <b>49</b> , 1975-1980



868-871

		R1		
868	clerodendrin I	Y <sub>6</sub>	<i>Clerodendrum trichotomum</i>	<i>Biosci. Biotechnol. Biochem.</i> , 1999, <b>63</b> , 1795-1797
869	clerodendrin E	Y <sub>10</sub>		<i>Phytochemistry</i> , 1998, <b>49</b> , 1975-1980
870	clerodendrin F	Y <sub>7</sub>		
871	clerodendrin G	Y <sub>1</sub>		

**COLOUHOUNIA Genus**

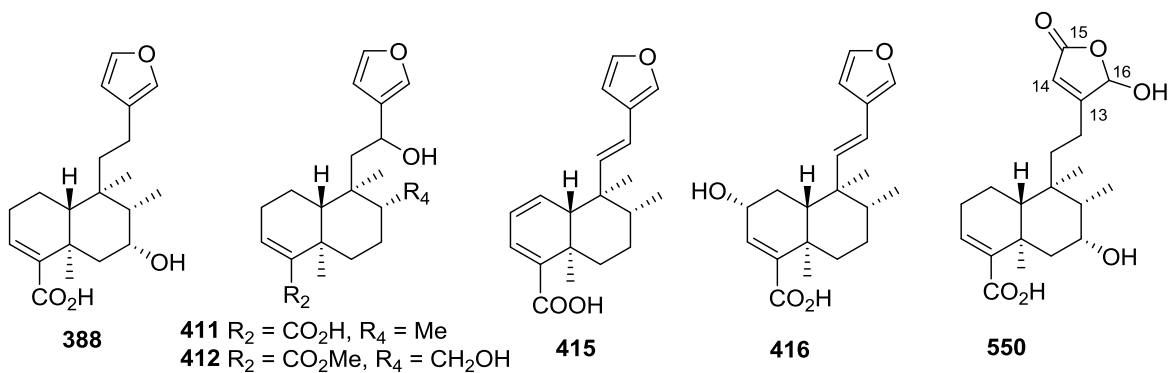


**515**

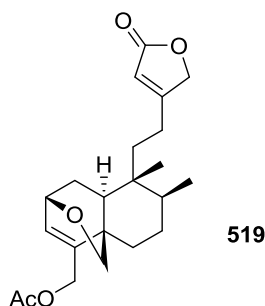
**516,517**

<b>515</b>	seguiniilactone A	—	<i>Colquhounia seguinii</i>	<i>J. Integr. Plant Biol.</i> , 2014, <b>56</b> , 928-940
<b>516</b>	seguiniilactone B	$\alpha$ OAc		
<b>517</b>	seguiniilactone C	H		

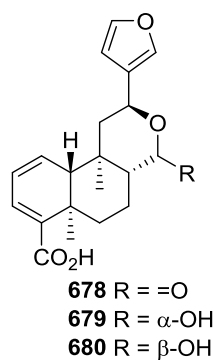
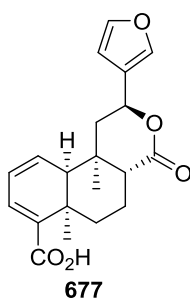
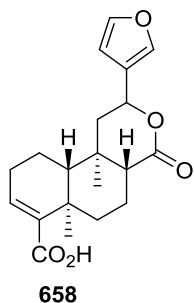
**CONYZA Genus**



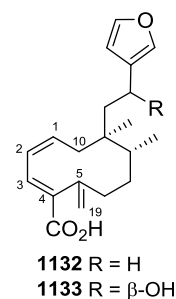
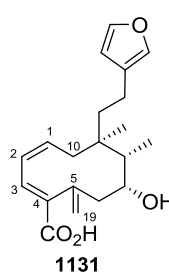
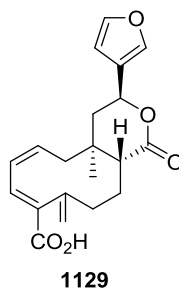
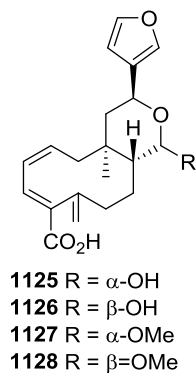
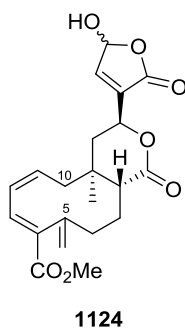
<b>388</b>	7 $\alpha$ -hydroxyhardwickiic acid	<i>Conyza hypoleuca</i>	<i>Phytochemistry</i> 1991, <b>30</b> , 575-581
<b>411</b>	12-hydroxyhardwickiic acid		
<b>412</b>	12,17-dihydroxyhardwickiic acid methyl ester		
<b>415</b>	1,2,11,12E-tetradehydrohardwickiic acid		
<b>416</b>	2 $\alpha$ -hydroxy-11,12E-dehydrohardwickiic acid		
<b>550</b>	conyhypolide A		



<b>519</b>	conyzalactone	<i>Conyza blinii</i>	<i>Heterocycles</i> , 1999, <b>51</b> , 605-609
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<b>658</b>	17-oxo-1,2-dihydrowelwitschic acid	<i>Conyza welwitschii</i>	<i>Phytochemistry</i> , 1990, <b>29</b> , 2247-2252
<b>677</b>	17-oxo-10-epi-welwitschic acid		
<b>678</b>	17-oxo-welwitschic acid		
<b>679</b>	17 $\alpha$ -hydroxywelwitschic acid		
<b>680</b>	17 $\beta$ -hydroxywelwitschic acid		

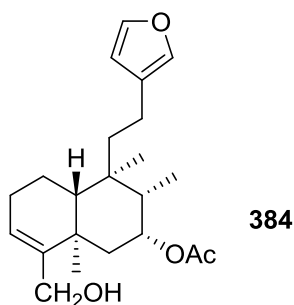


<b>1124</b>	<i>seco</i> -hypoleucolide	<i>Conyza hypoleuca</i>	<i>Phytochemistry</i> 1991, <b>30</b> , 575-581
<b>1125</b>	17 $\alpha$ -hydroxy-12 $\beta$ ,17-epoxystrictic acid	<i>Conyza welwitschii</i>	<i>Phytochemistry</i> , 1990, <b>29</b> , 2247-2252
<b>1126</b>	17 $\beta$ -hydroxy-12 $\beta$ ,17-epoxystrictic acid		
<b>1127</b>	17 $\alpha$ - <i>O</i> -methyl ether of <b>1125</b>		
<b>1128</b>	17 $\beta$ - <i>O</i> -methyl ether of <b>1126</b>		
<b>1129</b>	strictic acid 12 $\beta$ ,17-olide		



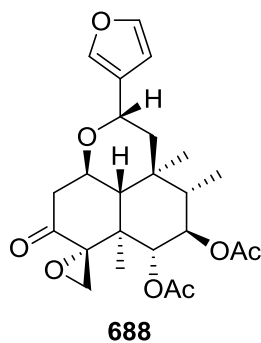
<b>1131</b>	7 $\alpha$ -hydroxystrictic acid	<i>Conyza hypoleuca</i>	<i>Phytochemistry</i> 1991, <b>30</b> , 575-581
<b>1132</b>	11,12 <i>E</i> -dehydrostrictic acid		
<b>1133</b>	12-hydroxystrictic acid	<i>Conyza welwitschii</i>	<i>Phytochemistry</i> , 1990, <b>29</b> , 2247-2252

**COPAIFERA Genus**



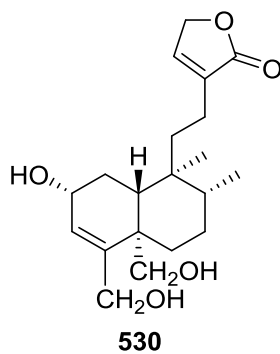
<b>384</b>	7 $\alpha$ -acetoxycornutin D	<i>Copaifera</i> sp.	<i>Phytochemistry</i> , 1996, <b>42</b> , 1653-1656
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**CORNUTIA Genus**



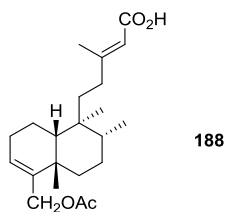
<b>688</b>	cornutin A	<i>Cornutia grandifolia</i>	<i>J. Org. Chem.</i> , 1992, <b>57</b> , 862-866
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**CRASSOCEPHALUM Genus**

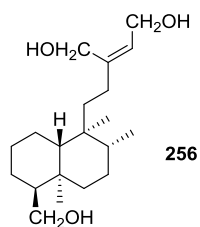


<b>530</b>	<i>ent</i> -2 $\beta$ ,18,19-trihydroxycyclo- <i>roda</i> -3,13-dien-16,15-olide	<i>Crassocephalum bauchiense</i>	<i>Nat. Prod. Res.</i> , 2015, <b>29</b> , 1990-1994
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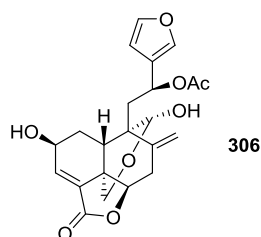
**CROTON Genus**



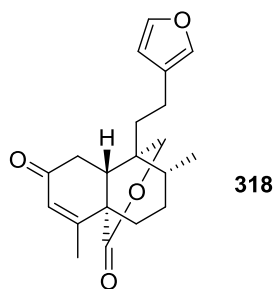
<b>188</b>	crotonic acid	<i>Croton chilensis</i>	<i>Bol. Soc. Chil. Quim.</i> , 1995, <b>40</b> , 157-162
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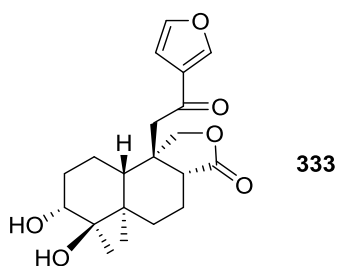
<b>256</b>	crolechinol	<i>Croton lechleri</i>	<i>Phytochemistry</i> , 1993, <b>32</b> , 755-760
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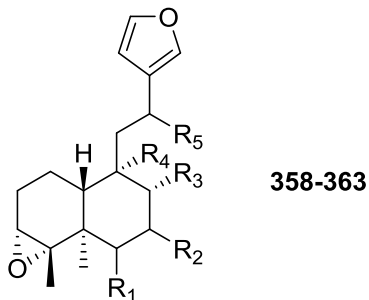
<b>306</b>	plaunol E	<i>Croton stellatopilosus</i>	<i>J. Nat. Med.</i> , 2013, <b>67</b> , 174-181
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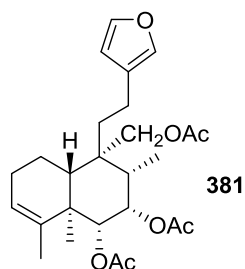
<b>318</b>	sacacarin	<i>Croton cajucara</i>	<i>Phytochemistry</i> , 1998, <b>49</b> , 823-828
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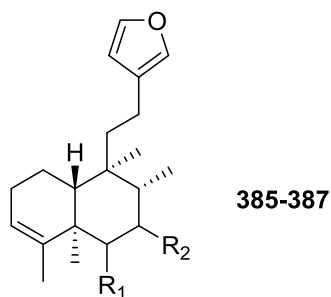
<b>333</b>	furocrotinsulolide B	<i>Croton insularis</i>	<i>Helv. Chim. Acta.</i> , 2005, <b>88</b> , 2654-2660
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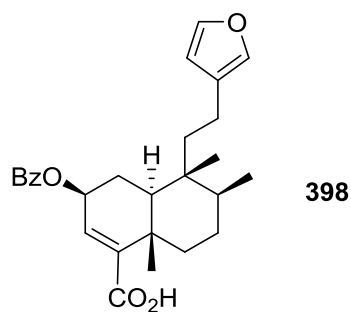
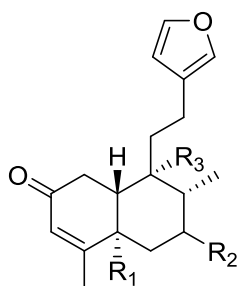
		R1	R2	R3	R4	R5		
<b>358</b>	epoxychiromodine	H	H	CO <sub>2</sub> Me	Me	=O	<i>Croton megalocarpus</i>	<i>Phytochemistry</i> , 1992, <b>31</b> , 2055-2058
<b>359</b>	eluterin C	H	αOAc	Me	CH <sub>2</sub> OH	H	<i>Croton eluteria</i>	<i>J. Agric. Food Chem.</i> , 2002, <b>50</b> , 5131-5138
<b>360</b>	eluterin D	H	αOH	Me	CH <sub>2</sub> OAc	H		
<b>361</b>	eluterin E	H	αOAc	Me	CH <sub>2</sub> OH	βOH		
<b>362</b>	eluterin F	αOAc	αOAc	Me	CH <sub>2</sub> OAc	H		
<b>363</b>	eluterin G	αOAc	αOAc	Me	CHO	H		



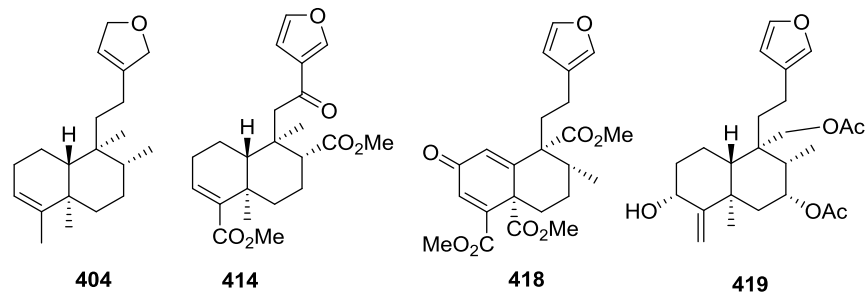
<b>381</b>	eluterin K	<i>Croton eluteria</i>	<i>J. Agric. Food Chem.</i> , 2003, <b>51</b> , 6970-6974
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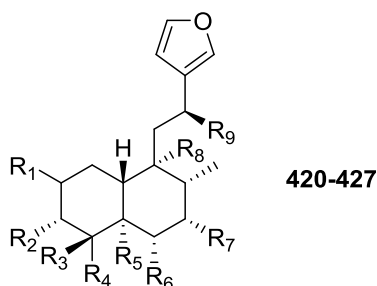
		R1	R2		
<b>385</b>	6 $\alpha$ -hydroxyannonene	$\alpha$ OH	H	<i>Croton sonderianus</i>	<i>Phytochemistry</i> , 1994, <b>36</b> , 1457-1463
<b>386</b>	6 $\alpha$ ,7 $\beta$ -dihydroxyannonene	$\alpha$ OH	$\beta$ OH		
<b>387</b>	6 $\alpha$ ,7 $\beta$ -diacetoxyannonene	$\alpha$ OAc	$\beta$ OAc		



		R1	R2	R3		
<b>393</b>	15,16-epoxy-3,13(16)-clerodatriene-2-one	$\alpha$ Me	H	Me	<i>Croton ururucana</i>	<i>Phytochemistry</i> , 1998, <b>49</b> , 171-174
<b>394</b>	cajucarín A	CHO	H	CO <sub>2</sub> Me	<i>Croton cajucara</i>	<i>Chem. Pharm. Bull.</i> , 1990, <b>38</b> , 701-705
<b>395</b>	cromiargyne	Me	H	CO <sub>2</sub> Me	<i>Croton hemiargyreus</i>	<i>Nat. Prod. Lett.</i> , 1998, <b>12</b> , 41-46
<b>396</b>	7-acetoxycromiargyne	Me	OAc	CO <sub>2</sub> Me		
<b>398</b>	laevigatbenzoate	--	--	--	<i>Croton laevigatus</i>	<i>J. Nat. Med.</i> , 2011, <b>65</b> , 391-394

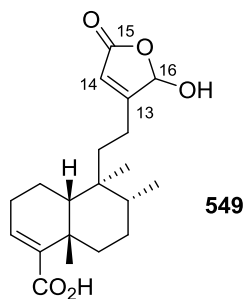


<b>404</b>	crotonolide G	<i>Croton laui</i>	<i>J. Nat. Prod.</i> , 2014, <b>77</b> , 1013-1020
<b>414</b>	crotomembranafuran	<i>Croton membranaceus</i>	<i>Nat. Prod. Commun.</i> , 2008, <b>3</b> , 1875-1878
<b>418</b>	crotonoligaketone	<i>Croton oligandrum</i>	<i>Z. Naturforsch. C</i> , 2014, <b>69</b> , 181-185
<b>419</b>	eluterin B	<i>Croton eluteria</i>	<i>J. Agric. Food Chem.</i> , 2002, <b>50</b> , 5131-5138

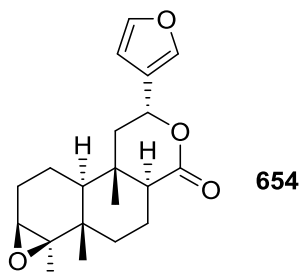


		R1	R2	R3	R4	R5	R6	R7	R8	R9		
<b>420</b>	crotonolide H	H	OH	OH	Me	Me	H	H	Me	OH	<i>Croton laui</i>	<i>J. Nat. Prod.</i> , 2014, <b>77</b> , 1013-1020
<b>421</b>	12-deoxycrotonolide H	H	OH	OH	Me	Me	H	H	Me	H		
<b>422</b>	crolechinic acid	H	H	H	$\beta$ CO <sub>2</sub> H	Me	H	H	Me	H	<i>Croton lechleri</i>	<i>Phytochem.</i> , 1993, <b>32</b> , 755-760
<b>424</b>	cascarilladione	=O	H	H	$\alpha$ Me	Me	H	H	Me	=O	<i>Croton eluteria</i>	<i>J. Agric. Food Chem.</i> , 2003, <b>51</b> , 6970-6974
<b>425</b>	eluterin A	H	=O	H	$\beta$ Me	Me	H	OAc	CH <sub>2</sub> OAc	H		<i>J. Agric. Food Chem.</i> , 2002, <b>50</b> , 5131-5138
<b>426</b>	3,12-dioxo-15,16-epoxycrocleroda-13(16),14-dien-9-al	H	=O	H	$\beta$ Me	Me	H	H	CHO	=O	<i>Croton hovarum</i>	<i>Phytochem.</i> , 1997, <b>45</b> , 379-381
<b>427</b>	3 $\alpha$ ,4 $\beta$ -dihydroxy-15,16-epoxy-12-	H	OH	OH	$\alpha$ Me	Me	H	H	CHO	=O		<i>Phytochem.</i> , 1996, <b>41</b> , 561-563

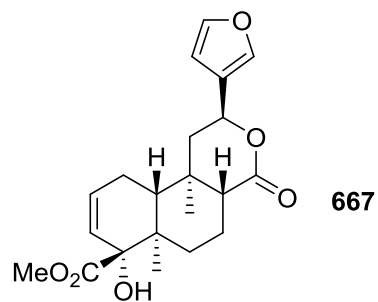
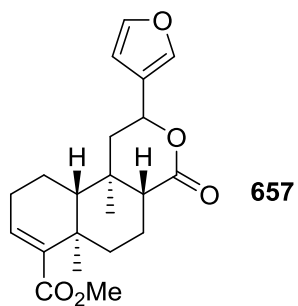
	oxo-cleroda-13(16),14-dien-9-al											
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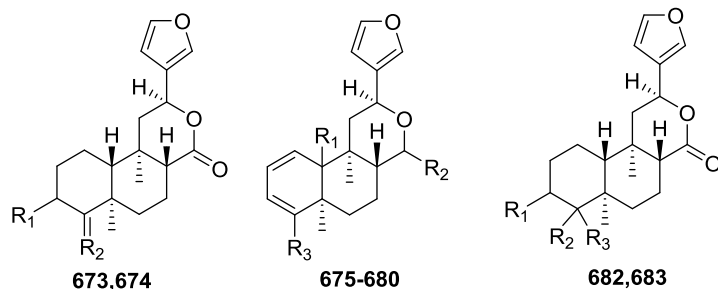
<b>549</b>	(-)-12,16-dihydroxy- <i>cis</i> -cleroda-3,13-dien-15-oic acid-15,16-olide	<i>Croton schiedeanus</i>	<i>Phytochemistry</i> , 1999, <b>51</b> , 643-649
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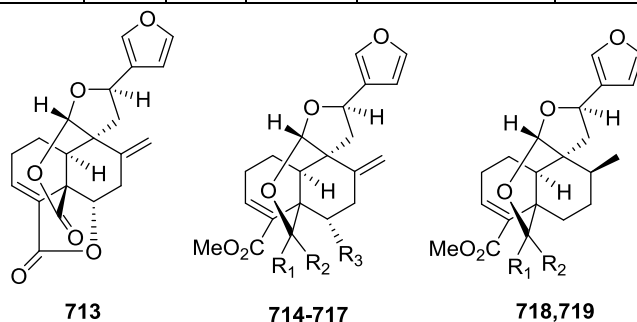
<b>654</b>	3,4,15,16-diepoxy-cleroda-13(16),14-diene-12,17-olide	<i>Croton oblongifolius</i>	<i>Phytochem. Lett.</i> , 2011, <b>4</b> , 147-150
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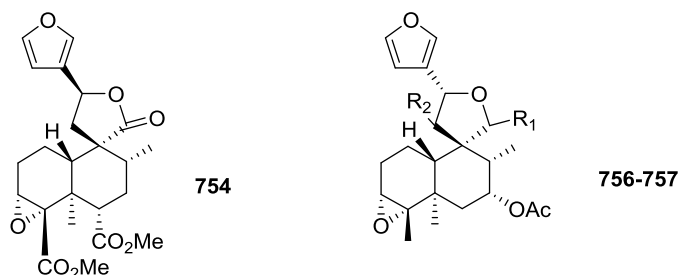
<b>657</b>	12-epi-methyl-barbascoate	<i>Croton ururucana</i>	<i>Phytochemistry</i> , 1998, <b>49</b> , 171-174
<b>667</b>	8-epicordatin	<i>Croton palanostigma</i>	<i>J. Braz. Chem. Soc.</i> , 2010, <b>21</b> , 731-739



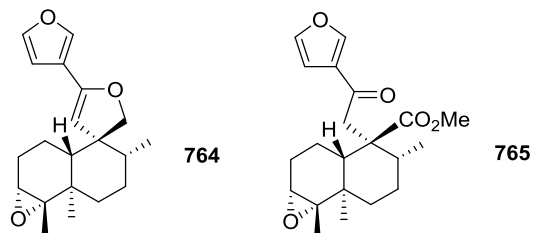
		R1	R2	R3		
<b>673</b>	crotonolide E	=O	$\alpha$ Me	—	<i>Croton laui</i>	<i>J. Nat. Prod.</i> , 2014, <b>77</b> , 1013-1020
<b>674</b>	crotonolide F	$\alpha$ OH	CH <sub>2</sub>	—		
<b>675</b>	—	$\alpha$ H	=O	CO <sub>2</sub> Me	<i>Croton jimenezii</i>	<i>Ingenieria Y Ciencia Quimica</i> , 2000, <b>19</b> , 68-73
<b>676</b>	—	$\beta$ H	=O	CO <sub>2</sub> Me		
<b>682</b>	methyl 3-oxo-12-epibarbascoate	=O	H	CO <sub>2</sub> Me	<i>Croton urucurana</i>	<i>J. Braz. Chem. Soc.</i> , 2013, <b>24</b> , 609-614.
<b>683</b>	furocrotonsulolide A	$\alpha$ OH	$\beta$ OH	$\alpha$ Me	<i>Croton insularis</i>	<i>Helv. Chim. Acta.</i> , 2005, <b>88</b> , 2654-2660



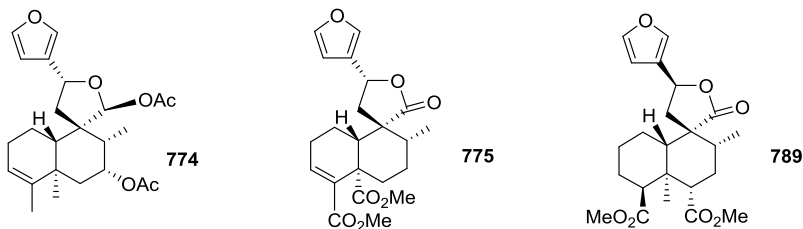
<b>713</b>	crotonolide A	—	—	—	—	<i>Croton laui</i>	<i>J. Nat. Prod.</i> , 2014, <b>77</b> , 1013-1020
<b>714</b>	crotonolide B	H	OH	H	—		
<b>715</b>	isocrotonolide B	OH	H	H	—		
<b>716</b>	crotonolide C	H	OH	OAc	—		
<b>717</b>	isocrotonolide C	OH	H	OAc	—		
<b>718</b>	crotonolide D	OH	OAc	—	—		
<b>719</b>	isocrotonolide D	H	OH	—	—		



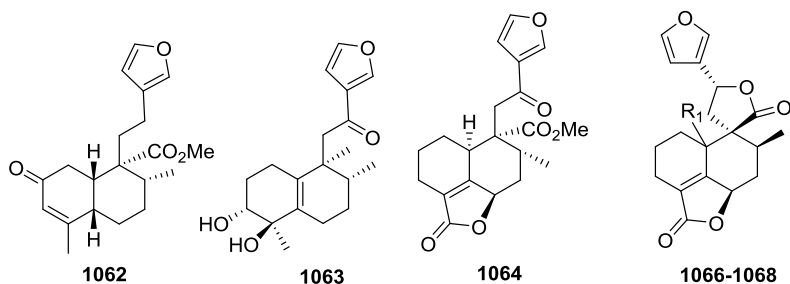
		R1	R2		
<b>754</b>	korberin A	—	—	<i>Croton lechleri</i>	<i>Phytochemistry</i> , 1993, <b>34</b> , 265-268
<b>756</b>	eluterin J	H	=O	<i>Croton eluteria</i>	<i>J. Agric. Food Chem.</i> , 2002, <b>50</b> , 5131-5138
<b>757</b>	eluterin I	$\beta$ OAc	H		



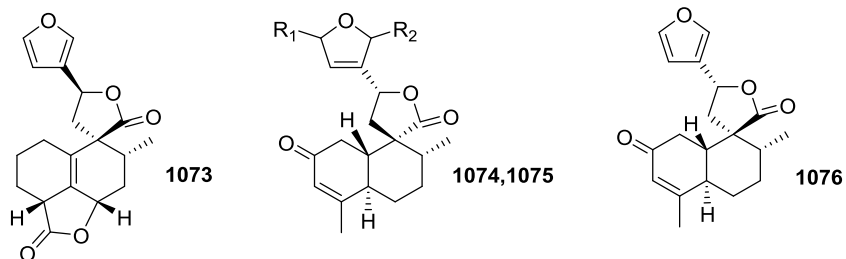
<b>764</b>	crotonpene A	<i>Croton yanhuui</i>	<i>Fitoterapia</i> , 2014, <b>95</b> , 229-233
<b>765</b>	crotonpene B		



<b>774</b>	eluterin H	<i>Croton eluteria</i>	<i>J. Agric. Food Chem.</i> , 2002, <b>50</b> , 5131-5138
<b>775</b>	crotocorylifuran	<i>Croton haumanianus</i>	<i>Tetrahedron</i> , 1990, <b>46</b> , 5199-5202
<b>779</b>	korberin B	<i>Croton lechleri</i>	<i>Phytochemistry</i> , 1993, <b>34</b> , 265-268

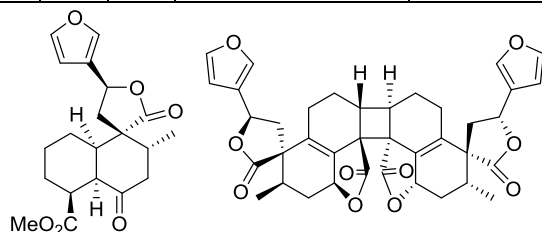


<b>1062</b>	cajucarin B	—	<i>Croton cajucara</i>	<i>Chem. Pharm. Bull.</i> , 1990, <b>38</b> , 701-705
<b>1063</b>	3α,4β-dihydroxy-15,16-epoxy-19-nor-12-oxo-cleroda-5(10),13(16),14-triene	—	<i>Croton hovarum</i>	<i>Phytochemistry</i> , 1997, <b>45</b> , 379-381
<b>1064</b>	crotoeurin C	---	<i>Croton euryphyllus</i>	<i>Bioorg. Med. Chem. Lett.</i> , 2015, <b>25</b> , 1329-1332
<b>1066</b>	jatrophoidin	αCO <sub>2</sub> Me	<i>Croton jatrophoides</i>	<i>Planta Med.</i> , 2009, <b>75</b> , 262-267
<b>1067</b>	isoteucvin	βH		
<b>1068</b>	crassifolin G	αOH	<i>Croton crassifolius</i>	<i>J. Nat. Prod.</i> , 2012, <b>75</b> , 2188-2192





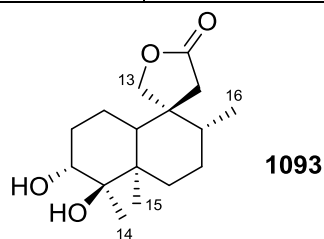
<b>1073</b>	crassifolin H	—	—	<i>Croton crassifolius</i>	<i>Heterocycles</i> , 2014, <b>89</b> , 1585-1593
<b>1074</b>	cajucarinolide	OH	=O	<i>Croton cajucara</i>	<i>Planta Med.</i> , 1992, <b>58</b> , 549-551
<b>1075</b>	isocajucarinolide	=O	OH		
<b>1076</b>	<i>trans</i> -dehydrocrotonin	—	—	<i>Croton cajucara</i>	<i>J. Braz. Chem. Soc.</i> , 2014, <b>25</b> , 629-638



**1083**

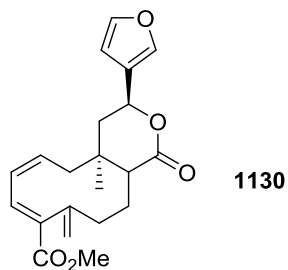
**1084**

<b>1083</b>	crotoeurin B	<i>Croton euryphyllus</i>	<i>Bioorg. Med. Chem. Lett.</i> , 2015, <b>25</b> , 1329-1332
<b>1084</b>	crotoeurin A		



**1093**

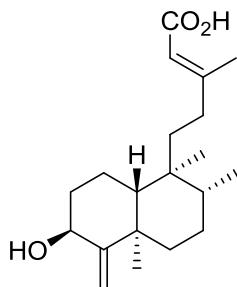
<b>1093</b>	crotoinsulactone	<i>Croton insularis</i>	<i>Helv. Chim. Acta.</i> , 2005, <b>88</b> , 2654-2660
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**1130**

<b>1130</b>	—	<i>Croton jimenezii</i>	<i>Ingenieria Y Ciencia Quimica</i> , 2000, <b>19</b> , 68-73
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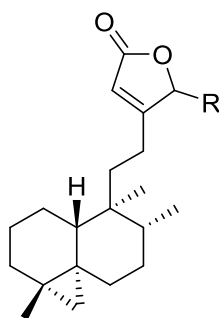
**CYATHOCALYX Genus**



286

286	3-hydroxy-cleroda-4(18),13Z-dien-15-oic acid	<i>Cyathocalyx zeylanica</i>	<i>Phytochemistry</i> , 1995, <b>39</b> , 443-445
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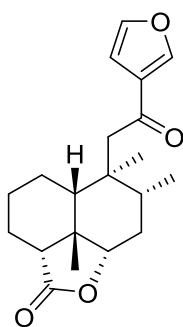
**CYSTODYTES Genus**



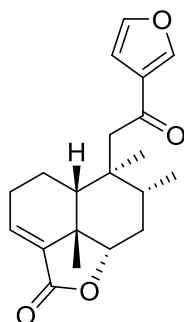
612-613

612	dytesinin A	OH	<i>Cystodytes</i> sp	<i>Tetrahedron</i> 2000, <b>56</b> , 7923-7926
613	dytesinin B	H		

**DEMOTARISIA Genus**



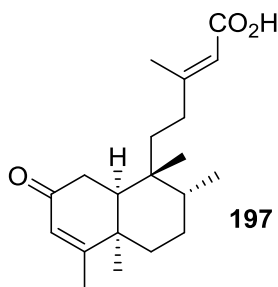
**309**



**310**

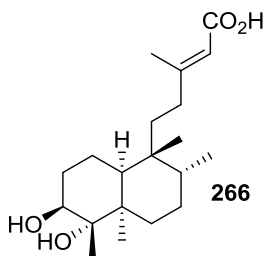
<b>309</b>	dihydrolinguifolide	<i>Demotarisia linguifolia</i>	<i>Phytochemistry</i> , 1990, <b>29</b> , 3229-3231
<b>310</b>	linguifolide		

**DETARIUM Genus**

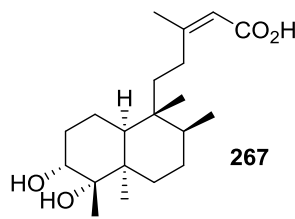


**197**

<b>197</b>	5 $\alpha$ ,8 $\alpha$ -2-oxokolavenic acid	<i>Detarium microcarpum</i>	<i>J. Nat. Prod.</i> , 2006, <b>69</b> , 768-773
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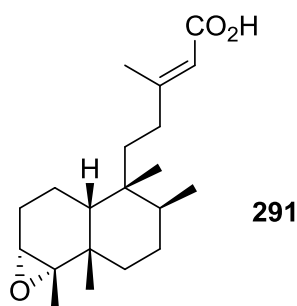


**266**



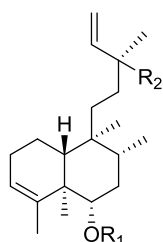
**267**

<b>266</b>	3,4-dihydroxycyclohexan-13 <i>E</i> -en-15-oic acid	<i>Detarium microcarpum</i>	<i>J. Nat. Prod.</i> , 2006, <b>69</b> , 768-773
<b>267</b>	3,4-dihydroxycyclohexan-13 <i>Z</i> -en-15-oic acid		



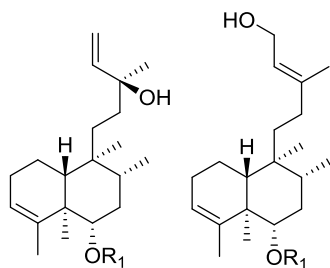
<b>291</b>	3,4-epoxyclerodan-13 <i>E</i> -en-15-oic acid	<i>Detarium microcarpum</i>	<i>J. Nat. Prod.</i> , 2006, <b>69</b> , 768-773
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**DICRANOPTERIS Genus**



**903-906**

<b>905</b>	(6 <i>S</i> ,13 <i>S</i> )-6- <i>O</i> -[ $\beta$ -D-glucopyranosyl-(1 $\rightarrow$ 4)- $\alpha$ -L-rhamnopyranosyl]-13- <i>O</i> -[ $\alpha$ -L-rhamnopyranosyl-(1 $\rightarrow$ 4)- $\beta$ -D-fucopyranosyl]-cleroda-3,14-diene	$\alpha$ -L-Rha-(4 $\rightarrow$ 1)- $\beta$ -D-Glc	$\beta$ -{ $\beta$ -D-Fuc-(4 $\rightarrow$ 1)- $\alpha$ -L-Rha}	<i>Dicranopteris pedata</i>	<i>Phytochemistry</i> , 1997, <b>46</b> , 839-844
<b>906</b>	(6 <i>S</i> ,13 <i>S</i> )-cleroda-3,14-diene-6,13-diol-6- <i>O</i> - $\beta$ -glucopyranosyl-13- <i>O</i> - $\beta$ -fucopyranosyl-(1 $\rightarrow$ 2)- $\alpha$ -rhamnopyranoside	$\beta$ -Glc	$\beta$ -{ $\alpha$ -Rha-(2 $\rightarrow$ 1)- $\beta$ -Fuc}		

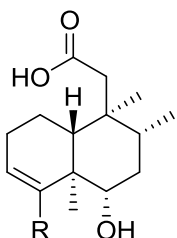


**910,911**

**912,913**

<b>910</b>	(6 <i>S</i> ,13 <i>S</i> )-6- <i>O</i> -[6- <i>O</i> -acetyl- $\beta$ -D-glucopyranosyl-(1 $\rightarrow$ 4)- $\alpha$ -L-rhamnopyranosyl]cleroda-3,14-dien-13-ol	6- <i>O</i> -acetyl- $\beta$ -D-Glc-(1 $\rightarrow$ 4)- $\alpha$ -L-Rha	<i>Dicranopteris dichotoma</i>	<i>J. Nat. Prod.</i> , 2007, <b>70</b> , 265-268
<b>911</b>	(6 <i>S</i> ,13 <i>S</i> )-6- <i>O</i> -[4- <i>O</i> -acetyl- $\beta$ -D-glucopyranosyl-(1 $\rightarrow$ 4)- $\alpha$ -L-rhamnopyranosyl]cleroda-3,14-dien-13-ol	4- <i>O</i> -acetyl- $\beta$ -D-Glc-(1 $\rightarrow$ 4)- $\alpha$ -L-		

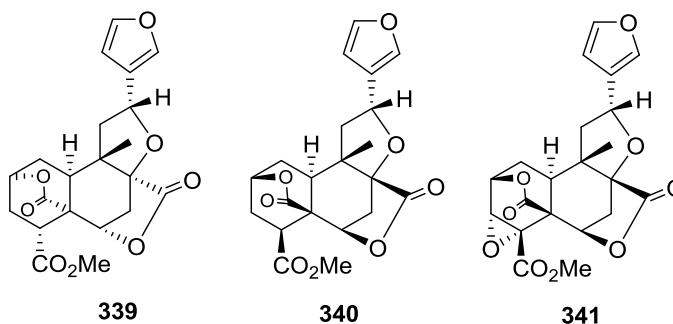
		Rha		
912	6-O-[6-O-acetyl-β-D-glucopyranosyl-(1-4)-α-L-rhamnopyranosyl]-(13E)-cleroda-3,13-dien-15-ol	6-O-acetyl-β-D-Glc-(1→4)-α-L-Rha		
913	6-O-[β-D-glucopyranosyl]-(1→4)-α-L-rhamnopyranosyl-(13E)-cleroda-3,13-dien-15-ol	β-Glc-(1→4)-α-L-Rha		



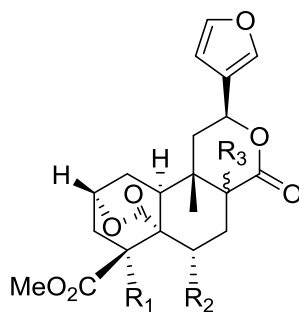
1091-1092

1091	18-hydroxyaylthonic acid	CH <sub>2</sub> OH	<i>Dicranopteris dichotoma</i>	<i>J. Nat. Prod.</i> , 2007, <b>70</b> , 265-268
1092	18-oxo-aylthonic acid	CHO		

**DIOSCOREA Genus**

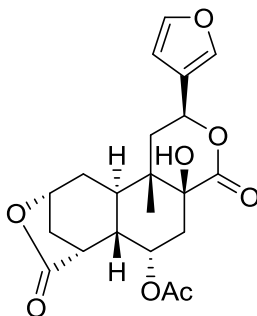


339	bafoudiosbulbin A	<i>Dioscorea bulbifera</i>	<i>Phytochemistry</i> , 2006, <b>67</b> , 1957-1963
340	bafoudiosbulbin D		<i>Helv. Chim. Acta</i> , 2007, <b>90</b> , 1599-1605
341	bafoudiosbulbin E		



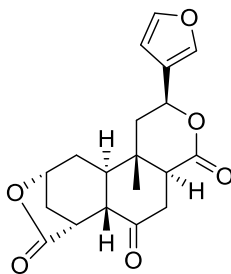
**650-653**

		R1	R2	R3		
<b>650</b>	antadiosbulbin A	OH	H	$\alpha$ H	<i>Dioscorea antaly</i>	<i>Phytochemistry</i> , 2010, <b>71</b> , 1007-1013
<b>651</b>	antadiosbulbin B	OH	H	$\beta$ H		
<b>652</b>	bafoudiosbulbin F	H	H	$\beta$ OH	<i>Dioscorea bulbifera</i>	<i>Phytochemistry</i> , 2008, <b>69</b> , 2374-2379
<b>653</b>	bafoudiosbulbin G	H	$\alpha$ OAc	$\beta$ OH		



**1065**

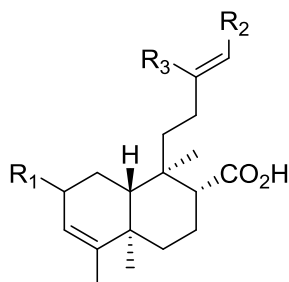
<b>1065</b>	15,16-epoxy-6a- <i>O</i> -acetyl-8 $\beta$ -hydroxy-19-nor-clero-13(16),14-diene-17,12;18,2-diolide	<i>Dioscorea bulbifera</i>	<i>Nat. Prod. Commun.</i> , 2011, <b>6</b> , 1069-1072
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**1313**

1313	disobulbin D (DBD)	<i>Dioscorea bulbifera</i>	<i>Chem. Pharm. Bull.</i> , 1968, <b>16</b> , 2430-2435, <i>Phytochemistry</i> , 1984, <b>23</b> , 623-625
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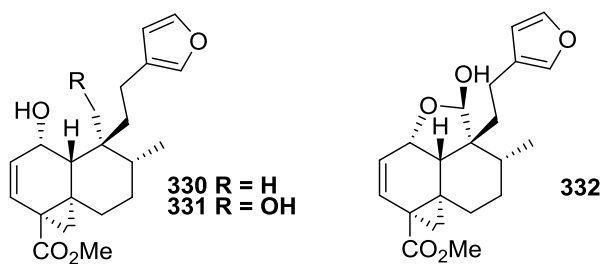
**DIPLOSTEPHIUM Genus**



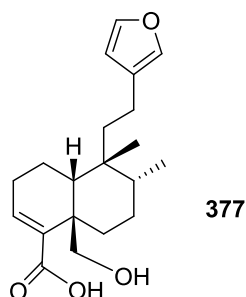
**183-185**

		R1	R2	R3		
<b>183</b>	16-oxo- <i>ent</i> -cleroda-3,13Z-diene-15,17-dioic acid	H	CO <sub>2</sub> H	CHO	<i>Diplostephium floribundum</i>	<i>Phytochemistry</i> , 1992, <b>31</b> , 213-216
<b>184</b>	15-oxo- <i>ent</i> -cleroda-3,13Z-diene-16,17-dioic acid	H	CHO	CO <sub>2</sub> H		
<b>185</b>	2α-acetoxy-15-oxo- <i>ent</i> -cleroda-3,13Z-diene-16,17-dioic acid	αOAc	CHO	CO <sub>2</sub> H		

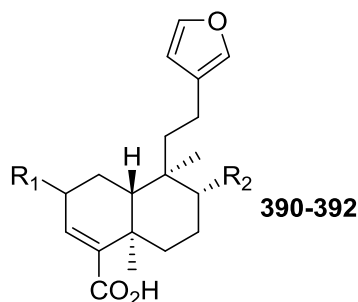
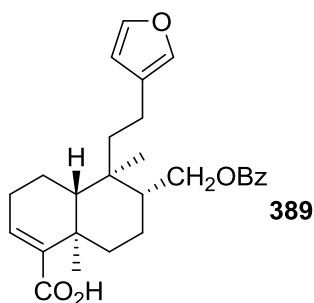
**DODONAEA Genus**



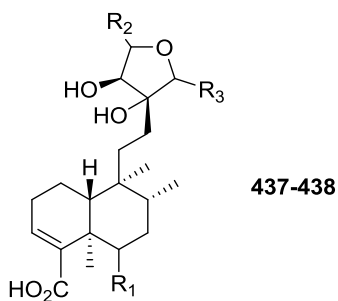
<b>330</b>	methyl dodonate A	<i>Dodonaea viscosa</i>	<i>Tetrahedron</i> , 2001, <b>57</b> , 2981-2989
<b>331</b>	methyl dodonate B		
<b>332</b>	methyl dodonate C		



<b>377</b>	vishautriwaic acid	<i>Dodonaea viscosa</i>	<i>Z. Naturforsch. B</i> , 2010, <b>65</b> , 83-86
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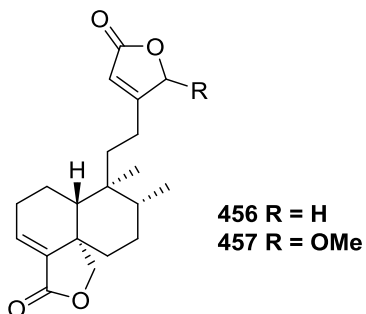


		R1	R2		
<b>389</b>	15,16-epoxy-8 <i>R</i> -(benzoyloxy)methyl-cleroda-3,13(16),14-trien-18-oic acid	CO <sub>2</sub> H	CH <sub>2</sub> OBz	<i>Dodonaea polyandra</i>	<i>J. Nat. Prod.</i> , 2011, <b>74</b> , 650-657
<b>390</b>	15,16-epoxy-8 <i>R</i> -(benzoyloxy)methyl-2 <i>R</i> -hydroxycleroda-3,13(16),14-trien-18-oic acid	αOH	CH <sub>2</sub> OBz		
<b>391</b>	15,16-epoxy-2 <i>R</i> -benzoyloxycleroda-3,13(16),14-trien-18-oic acid	αOBz	Me		
<b>392</b>	15,16-epoxy-8 <i>R</i> -(benzoyloxy)methyl-2-oxocleroda-3,13(16),14-trien-18-oic acid	=O	CH <sub>2</sub> OBz		

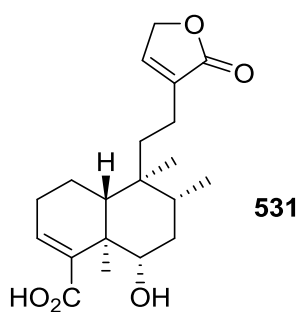


		R1	R2	R3		
<b>437</b>	visclerodol acid	H	βOAc	βOAc	<i>Dodonaea viscosa</i>	<i>Z. Naturforsch. B</i> , 2010, <b>65</b> , 83-86, <i>Phytochem. Lett.</i> , 2014, <b>8</b> , 10-15
<b>438</b>	13,14-dihydroxy-15,16-dimethoxy-(-)-6α-hydroxy-5α,8α,9α,10α-cleroda-3-en-18-oic acid	αOH	βOMe	βOMe		

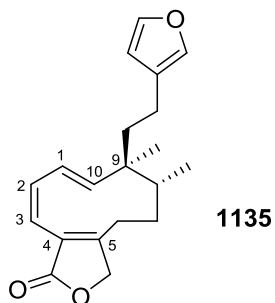




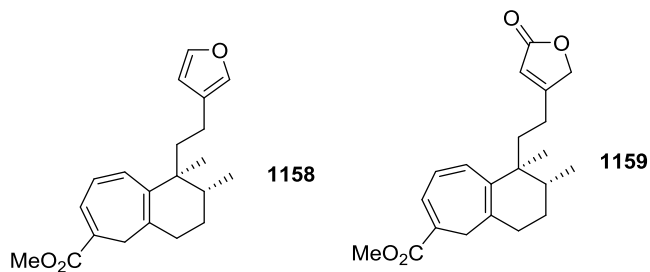
456	mkapwanin	<i>Dodonaea angustifolia</i>	<i>Phytochem. Lett.</i> , 2010, <b>3</b> , 217–220
457	15-methoxymkapwanin		



531	(-)-6 $\alpha$ -hydroxy-5 $\alpha$ ,8 $\alpha$ ,9 $\alpha$ ,10 $\alpha$ -cleroda-3,13-dien-16,15-olid-18-oic acid	<i>Dodonaea viscosa</i>	<i>Phytochem. Lett.</i> , 2014, <b>8</b> , 10-15
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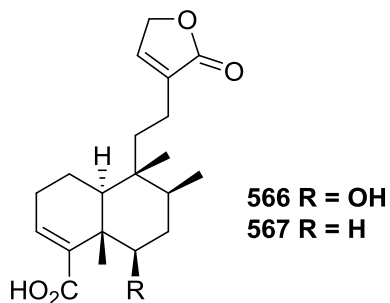


1135	dodonolide	<i>Dodonaea viscosa</i> .	<i>Tetrahedron</i> , 2001, <b>57</b> , 2981-2989
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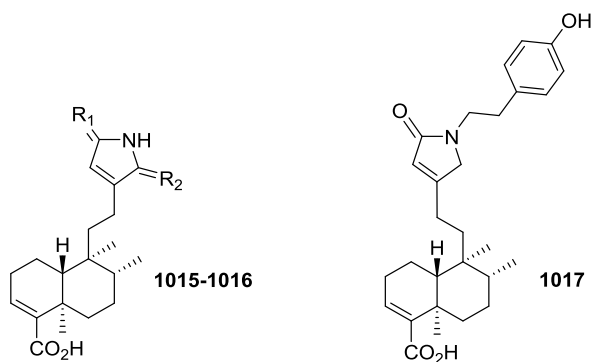
1158	methyl dodovisate A	<i>Dodonaea viscosa</i>	<i>J. Asian. Nat. Prod. Res.</i> , 2010, <b>12</b> , 7-14
1159	methyl dodovisate B		

**DURANTA Genus**

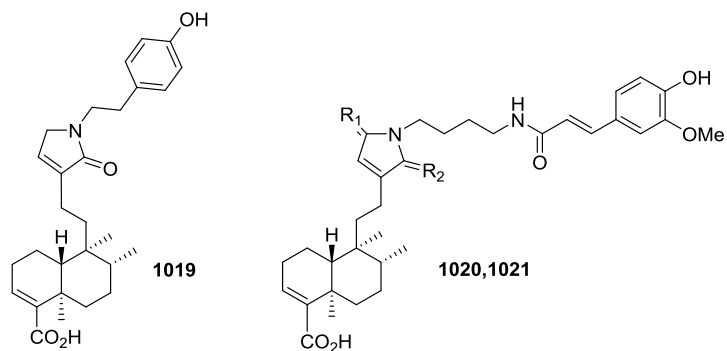


<b>566</b>	(-)-6 $\beta$ -hydroxy-5 $\beta$ ,8 $\beta$ ,9 $\beta$ ,10 $\alpha$ -cleroda-3,13-dien-16,15-olid-18-oic acid	<i>Duranta repens</i>	<i>Chem. Pharm. Bull.</i> , 2004, <b>52</b> , 785-789
<b>567</b>	(+)-3,13-clerodadien-16,15-olid-18-oic acid		

**ECHINODORUS Genus**

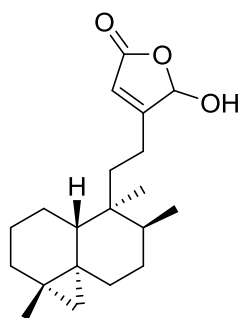


		R1	R2		
<b>1015</b>	echinophyllin C	H <sub>2</sub>	O	<i>Echinodorus macrophyllus</i>	<i>J. Nat. Prod.</i> , 2000, <b>63</b> , 1576-1579
<b>1016</b>	echinophyllin F	O	H <sub>2</sub>		
<b>1017</b>	echinophyllin D	—	—		



		R1	R2		
<b>1019</b>	echinophyllin A	—	—	<i>Echinodorus macrophyllus</i>	<i>Tetrahedron Lett.</i> , 2000, <b>41</b> , 2939-2943
<b>1020</b>	echinophyllin B	H <sub>2</sub>	O		<i>J. Nat. Prod.</i> , 2000, <b>63</b> , 1576-1579
<b>1021</b>	echinophyllin E	O	H <sub>2</sub>		

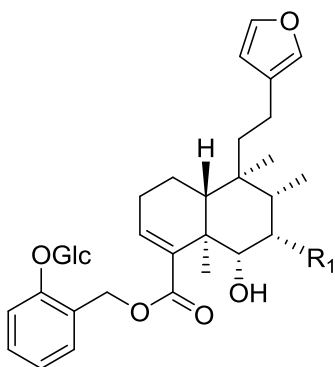
**ECHINOMURICEA Genus**



**614**

<b>614</b>	echinoclerodane A	<i>Echinomuricea</i> sp	<i>Molecules</i> , 2012, <b>17</b> , 9443-9450
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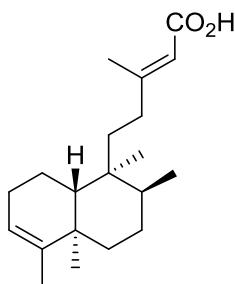
**ELSHOLTZIA Genus**



**924,925**

<b>924</b>	6-hydroxy-(-)-hardwickiic acid 2'- $\beta$ -D-glucopyranosyl benzyl ester	H	<i>Elsholtzia bodinieri</i>	<i>Indian J. Chem.</i> , 2008, <b>47B</b> , 166-170
<b>925</b>	6,7-dihydroxy-(-)-hardwickiic acid 2'- $\beta$ -D-glucopyranosyl benzyl ester	OH		

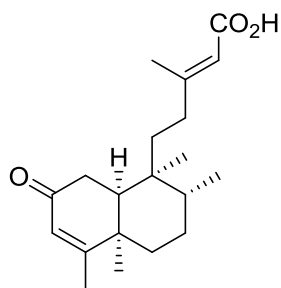
**ENTADA Genus**



**182**

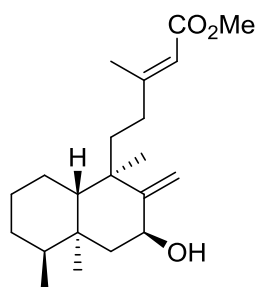
<b>182</b>	diastereoisomer of kolavenol	<i>Entada abyssinica</i>	<i>J. Ethnopharmacol.</i> , 1998, <b>61</b> , 179-183
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**EPERUA Genus**



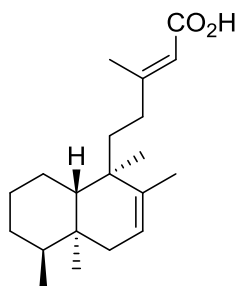
**198**

<b>198</b>	(13 <i>E</i> )-2-oxo-5α- <i>cis</i> -17α,20α-cleroda-3,13-diene-15-oic acid	<i>Eperua purpurea</i>	<i>Phytochemistry</i> , 1991, <b>30</b> , 3474-3475
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**258**

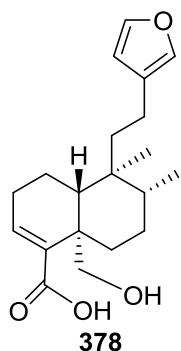
<b>258</b>	(-)-7β-hydroxycleroda-8(17),13 <i>E</i> -dien-15-oic acid	<i>Eperua leucantha</i>	<i>J. Nat. Prod.</i> , 1992, <b>55</b> , 845-850
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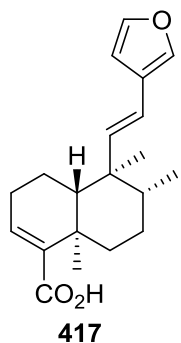
**272**

<b>272</b>	(-)-cleroda-7,13 <i>E</i> -dien-15-oic acid	<i>Eperua purpurea</i>	<i>J. Nat. Prod.</i> , 1993, <b>56</b> , 1586-1589
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**EREMOCARPUS Genus**

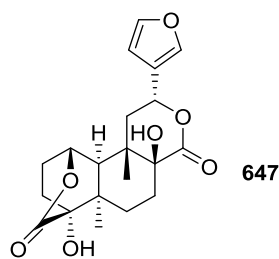
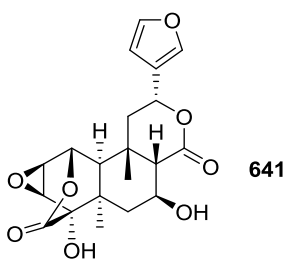


<b>378</b>	hautriwaic acid	<i>Eremocarpus setigerus</i>	<i>Indian J. Chem. B</i> , 1991, <b>30</b> , 1054-1055
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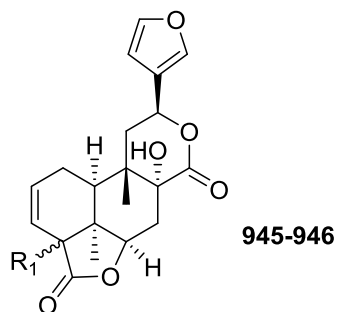


<b>417</b>	dehydrohardwickiic acid	<i>Eremocarpus setigerus</i>	<i>Indian J. Chem. B</i> , 1991, <b>30</b> , 1054-1055
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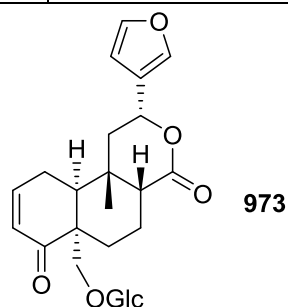
**FIBRAUREA Genus**



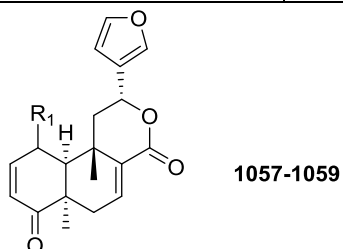
<b>641</b>	fibrauretin A	<i>Fibraurea tinctoria</i>	<i>J. Nat. Prod.</i> , 2007, <b>70</b> , 1930-1933
<b>647</b>	epi-8-hydroxycolumbin	<i>Fibraurea tinctoria</i>	<i>Bioorg. Med. Chem.</i> , 2008, <b>16</b> , 9603-9609



<b>945</b>	fibrauretin A	$\alpha$ OGlc	<i>Fibraurea tinctoria</i>	<i>J. Nat. Prod.</i> , 2007, <b>70</b> , 1930-1933
<b>946</b>	<i>epi</i> -fibrauretin A	$\beta$ OGlc		

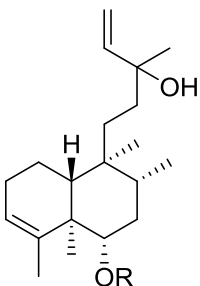


<b>973</b>	<i>epi</i> -12-palmatoside G		<i>Fibraurea tinctoria</i>	<i>J. Nat. Prod.</i> , 2007, <b>70</b> , 1930-1933
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<b>1057</b>	fibaruretin D	H	<i>Fibraurea tinctoria</i>	<i>Bioorg. Med. Chem.</i> , 2008, <b>16</b> , 9603-9609
<b>1058</b>	fibaruretin E	$\alpha$ OH		
<b>1059</b>	fibaruretin F	=O		

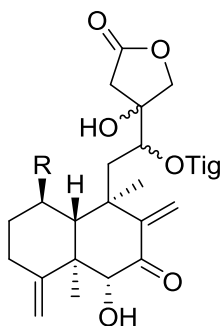
**GLEICHENIA Genus**



**903-904**

<b>903</b>	$\alpha$ -vinyl-1,2,3,4,4a,7,8,8a-octahydro- $\alpha$ ,1,2,4a,5-pentamethyl-1-naphthalenepropanol-4- <i>O</i> - $\beta$ -glucopyranoside	$\beta$ -Glc	<i>Gleichenia japonica</i>	<i>Chem. Lett.</i> , 1991, <b>4</b> , 701-704
<b>904</b>	$\alpha$ -vinyl-1,2,3,4,4a,7,8,8a-octahydro- $\alpha$ ,1,2,4a,5-pentamethyl-1-naphthalenepropanol-4- <i>O</i> - $\alpha$ -rhamnopyranosyl-(1 $\rightarrow$ 2)- $\beta$ -glucopyranoside	$\beta$ -Glc-(2 $\rightarrow$ 1)- $\alpha$ -L-Rha		

**GLOSSOCARYA Genus**

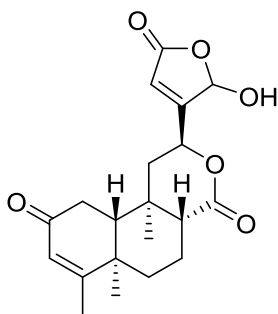


**598-600**

<b>598</b>	calcicolin A	OiBu	<i>Glossocarya calcicola</i>	<i>Phytochemistry</i> , 2005, <b>66</b> , 2844-2850
<b>599</b>	calcicolin B	OTig		
<b>600</b>	calcicolin C	Y1		

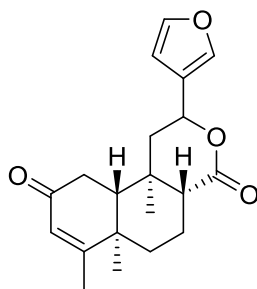


**GOMPHOSTEMMA Genus**



**527**

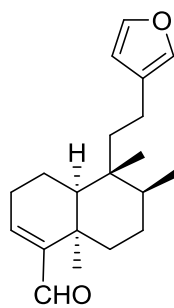
<b>527</b>	microdon B	<i>Gomphostemma microdon</i>	<i>Z. Naturforsch., B: J. Chem. Sci.</i> , 2009, <b>64</b> , 443-446
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**656**

<b>656</b>	microdon A	<i>Gomphostemma microdon</i>	<i>Z. Naturforsch., B: J. Chem. Sci.</i> , 2009, <b>64</b> , 443-446
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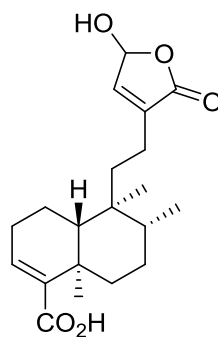
**GOTTSCHELIA Genus**



**401**

<b>401</b>	(5 <i>R</i> ,8 <i>S</i> ,9 <i>R</i> ,10 <i>S</i> )-15,16-epoxy- <i>cis</i> -cleroda-3,13(16),14-trien-18-al	<i>Gottschelia schizopleura</i>	<i>Planta Med.</i> , 2009, <b>75</b> , 1597-1601
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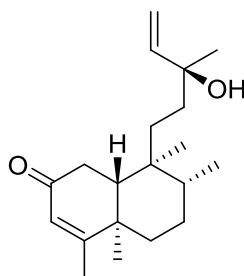
**GRANGEA Genus**



**532**

<b>532</b>	15-hydroxy-16-oxo-15,16H-hardwickiic acid	<i>Grangea maderaspatana</i>	<i>Phytochemistry</i> , 1999, <b>52</b> , 1341-1343
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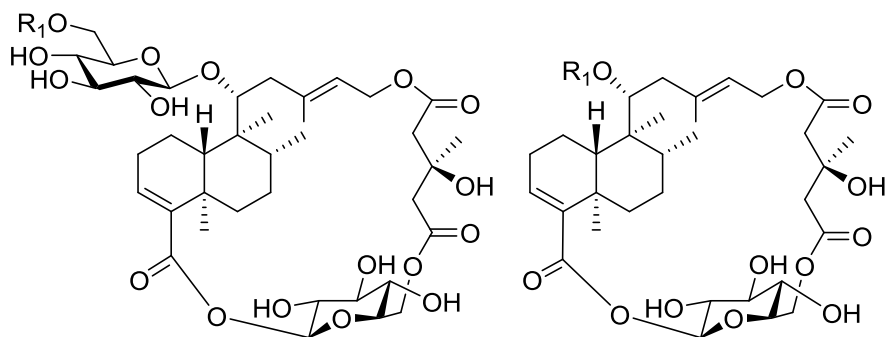
**GUAREA Genus**



**246**

<b>246</b>	(-)-2-oxo-13-hydroxy-3,14-clerodandiene	<i>Guarea trichilioides</i>	<i>Phytochemistry</i> , 1996, <b>41</b> , 1159-1161
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**HALOPHILA-SYPHONOTA Genus**

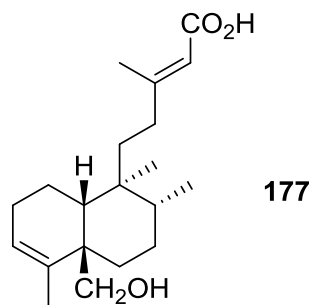


**978,979**

**980,981**

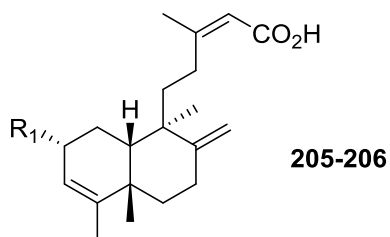
<b>978</b>	syphonoside	H	<i>Syphonota geographica</i> , <i>Halophila stipulacea</i>	<i>J. Org. Chem.</i> , 2007, <b>72</b> , 5625-5630
<b>979</b>	6'''-acetyl syphonoside	Ac		<i>Tetrahedron</i> , 2008, <b>64</b> , 191-196
<b>980</b>	syphonosideol	H		
<b>981</b>	mixture of syphonoside esters	palmitic & stearic acids		

**HAPLOPAPPUS Genus**



**177**

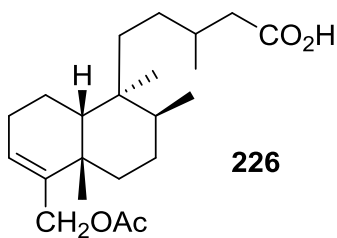
<b>177</b>	deserticollic acid	<i>Haplopappus deserticola</i>	<i>Phytochemistry</i> , 1999, <b>52</b> , 1531-1533
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**205-206**

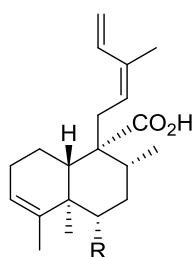
<b>205</b>	2α-hydroxy- <i>cis</i> -cleroda-3,13(Z),8,17-	OH	<i>Haplopappus</i>	<i>Planta Med.</i> , 2003,
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	trien-15-oic acid		<i>foliosus</i>	<b>69</b> , 675-677
<b>206</b>	2 $\alpha$ -acetoxy- <i>cis</i> -cleroda-3,13(Z),8,17-trien-15-oic acid	OAc		

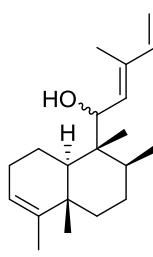


<b>226</b>	18-acetoxy- <i>cis</i> -cleroda-3-en-15-oic acid	<i>Haplopappus uncinatus</i>	<i>J. Ethnopharmacol.</i> , 2006, <b>103</b> , 297-301
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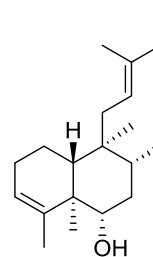
### **HETEROSCYPHUS Genus**



**165** R = H  
**166** R = OAc

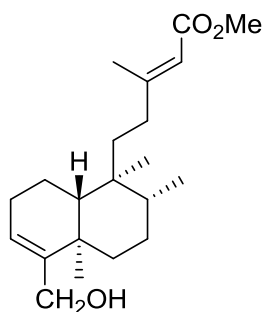


**167**



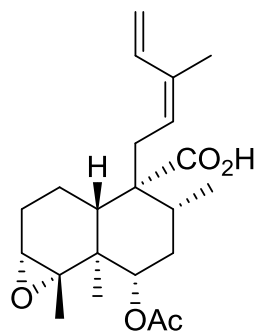
**168**

<b>165</b>	heteroscyphic acid A	<i>Heteroscyphus planus</i>	<i>Phytochemistry</i> , 1994, <b>37</b> , 1263-1268
<b>166</b>	heteroscyphic acid B		
<b>167</b>	heteroscyphol		<i>Phytochemistry</i> , 1995, <b>38</b> , 119-127
<b>168</b>	6 $\alpha$ -hydroxy-3,12E,14-clerodatriene	<i>Heteroscyphus billardierii</i>	<i>Chem. Pharm. Bull.</i> , 2004, <b>52</b> , 556-560



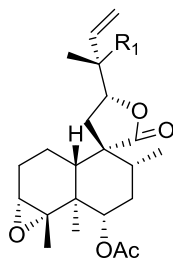
**190**

<b>190</b>	18-hydroxy-5,10- <i>trans</i> -cleroda-3,13E-dien-15-oic acid methyl ester	<i>Heteroscyphus planus</i>	<i>Phytochemistry</i> , 1996, <b>41</b> , 581-587
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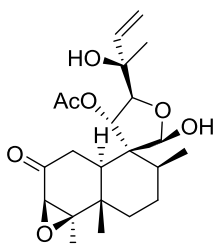


**292**

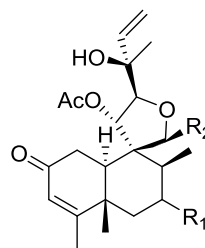
<b>292</b>	heteroscyphic acid C	<i>Heteroscyphus planus</i>	<i>Phytochemistry</i> , 1994, <b>37</b> , 1263-1268
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**768-769**



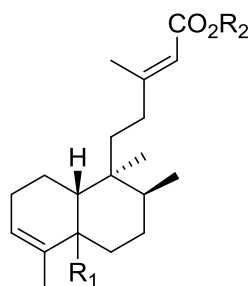
**770**



**771-773**

<b>768</b>	heteroscypholide A	$\beta$ OAc	—	<i>Heteroscyphus planus</i>	<i>Phytochemistry</i> , 1996, <b>41</b> , 581-587
<b>769</b>	heteroscypholide B	$\beta$ OH	—		
<b>770</b>	heteroscyphone A	—	—	<i>Heteroscyphus planus</i>	<i>Phytochemistry</i> , 1995, <b>38</b> , 119-127
<b>771</b>	heteroscyphone B	H	$\beta$ OH		
<b>772</b>	heteroscyphone C	H	H		
<b>773</b>	heteroscyphone D	$\beta$ OH	$\beta$ OH		

**HYMENAEA Genus**

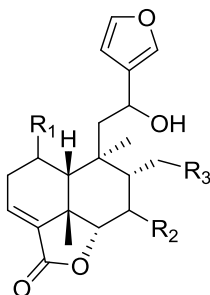


195 R<sub>1</sub> =  $\alpha$ -Me, R<sub>2</sub> = H

196 R<sub>1</sub> =  $\beta$ -Me, R<sub>2</sub> = Me

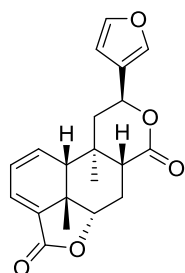
195	(-)-(5R,8S,9S,10R)-cleroda-3,13E-dien-15-oic acid	<i>Hymenaea courbaril</i>	<i>Phytochemistry</i> , 2001, <b>58</b> , 1153-1157
196	methyl (5S,8S,9S,10R)-cleroda-3,13E-dien-15-oate		

**JAMESONIELLA Genus**

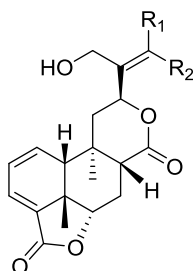


310-313

		R1	R2	R3		
311	1 $\beta$ -acetoxy-12-hydroxy-15,16-epoxy- <i>cis</i> -cleroda-3,13(16),14-triene-18,16-olide	$\beta$ OAc	H	H	<i>Jamesoniella autumnalis</i>	<i>Phytochemistry</i> , 1995, <b>39</b> , 859-868, <i>Phytochemistry</i> , 1998, <b>48</b> , 681-685, <i>J. Nat. Prod.</i> , 1992, <b>55</b> , 111-121
312	1 $\beta$ -acetoxy-7,12-dihydroxy-15,16-epoxy- <i>cis</i> -cleroda-3,13(16),14-triene-18,6-olide	$\beta$ OAc	$\beta$ OH	H		
313	17-acetoxy-1 $\beta$ ,12-dihydroxy-15,16-epoxy- <i>cis-ent</i> -cleroda-3,13(16),14-triene-6 $\alpha$ ,18-olide	$\beta$ OH	H	OAc		

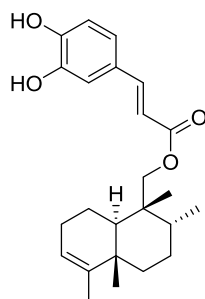


638



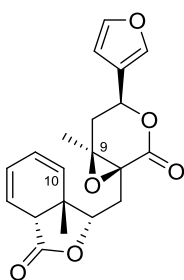
639 R1 = CO<sub>2</sub>H, R2 = H  
640 R1 = H, R2 = CO<sub>2</sub>H

638	15,16-epoxy,1,3,13(16),14-clerodatetraene-17,12:18,6-diolide	<i>Jamesoniella autumnalis</i>	<i>Phytochemistry</i> , 1998, <b>48</b> , 681-685
639	15-carboxy-8β,16-dihydroxy-1,3,13 <i>E</i> -clerodatriene-17,12:18,6-diolide		
640	15-carboxy-8β,16-dihydroxy-1,3,13 <i>Z</i> -clerodatriene-17,12:18,6-diolide		

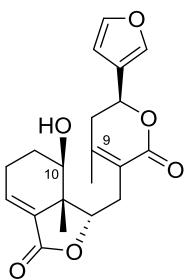


1097

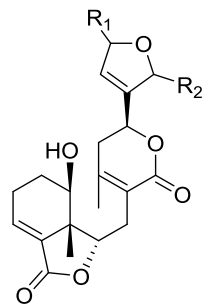
1097	—	<i>Jamesoniella colorata</i>	<i>Nat. Prod. Commun.</i> , 2010, <b>5</b> , 999-1003
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1098

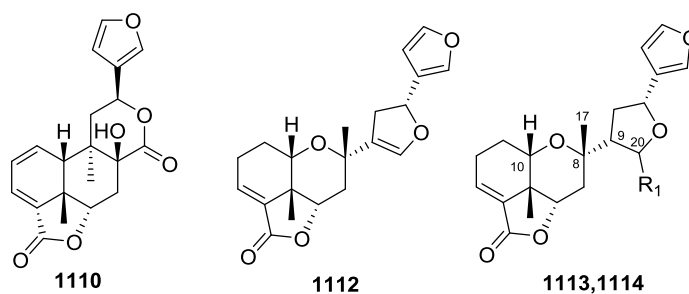


1099

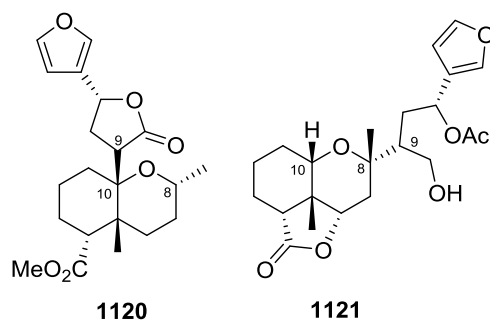


1100,1101

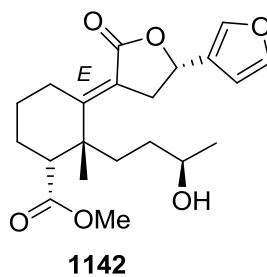
1098	jamesoniellide F	—	—	<i>Jamesoniella autumnalis</i>	<i>Phytochemistry</i> , 1995, <b>39</b> , 859-868, <i>Phytochemistry</i> , 1999, <b>51</b> , 743-750
1099	jamesoniellide I	—	—		
1100	jamesoniellide K	OH	=O	<i>Jamesoniella colorata</i>	<i>Phytochemistry</i> , 2003, <b>63</b> , 227-233
1101	jamesoniellide L	=O	OH		



<b>1110</b>	15,16-epoxy-8-hydroxy-1,3,13(16),14-clerodatetraene-17,12:18,6-diolide	—	<i>Jamesoniella autumnalis</i>	<i>Phytochemistry</i> , 1995, <b>39</b> , 859-868
<b>1112</b>	jamesoniellide D	—		<i>Phytochemistry</i> , 1995, <b>39</b> , 859-868,
<b>1113</b>	jamesoniellide E	=O		<i>Phytochemistry</i> , 1999, <b>51</b> , 743-750
<b>1114</b>	jamesoniellide H	$\alpha$ OH		

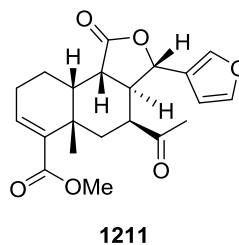
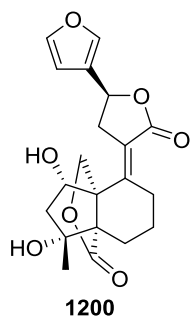


<b>1120</b>	jamesoniellide A	<i>Jamesoniella autumnalis</i>	<i>J. Nat. Prod.</i> , 1992, <b>55</b> , 111-121
<b>1121</b>	jamesoniellide B		



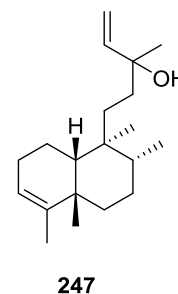
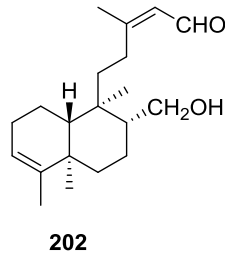
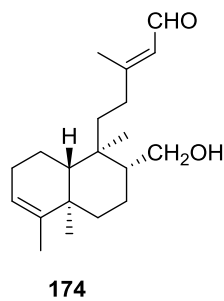
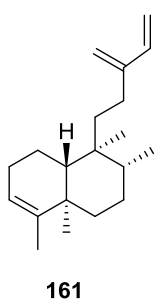
<b>1142</b>	jamesoniellide J	<i>Jamesoniella autumnalis</i>	<i>Phytochemistry</i> , 1999, <b>51</b> , 743-750
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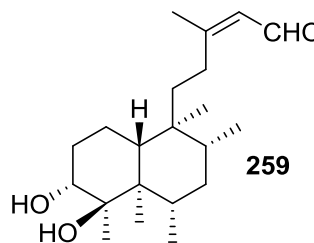
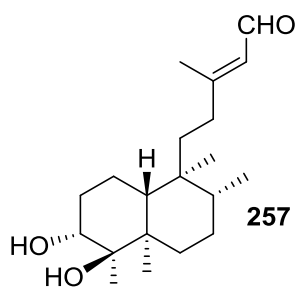


<b>1200</b>	jamesoniellide C	<i>Jamesoniella autumnalis</i>	<i>Phytochemistry</i> , 1994, <b>37</b> , 491-494
<b>1211</b>	cephaloziellin Q	<i>Jamesoniella colorata</i>	<i>Nat. Prod. Commun.</i> , 2010, <b>5</b> , 999-1003

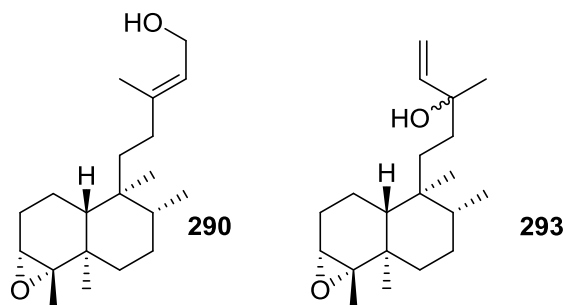
**JUNGERMANNIA Genus**



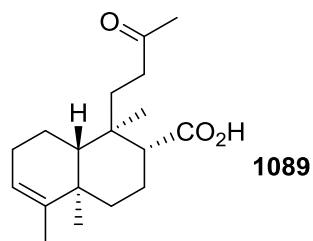
<b>161</b>	<i>ent</i> -clerod-3,13(16),14-triene	<i>Jungermannia infusca</i>	<i>Phytochemistry</i> , 1998, <b>49</b> , 601-608
<b>174</b>	17-hydroxy-3,13 <i>E</i> -clerodadien-15-al		<i>Chem. Pharm. Bull.</i> , 2000, <b>48</b> , 1818-1821
<b>202</b>	17-hydroxy-3,13 <i>Z</i> -clerodadien-15-al		<i>J. Nat. Prod.</i> , 2001, <b>64</b> , 1309-1317
<b>247</b>	<i>cis</i> -3,14-clerodadien-13-ol		



<b>257</b>	3 <i>R</i> ,4 <i>R</i> -dihydroxyclerod-13 <i>E</i> -en-15-al	<i>Jungermannia hyalina</i>	<i>Phytochemistry</i> , 1995, <b>40</b> , 209-212
<b>259</b>	3 <i>R</i> ,4 <i>R</i> -dihydroxyclerod-13 <i>Z</i> -en-15-al		

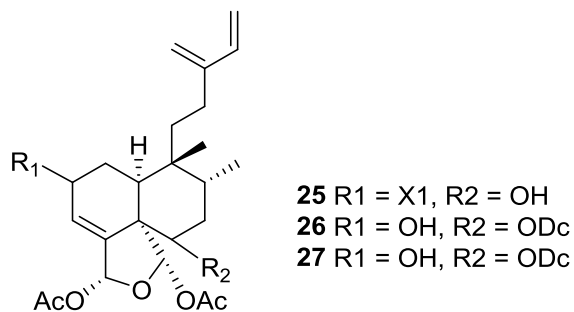


<b>290</b>	<i>ent</i> -3 $\beta$ ,4 $\beta$ -epoxyclerod-13 $E$ -en-15-ol	<i>Jungermannia hyalina</i>	<i>Phytochemistry</i> , 1995, <b>40</b> , 209-212
<b>293</b>	<i>ent</i> -3 $\beta$ ,4 $\beta$ -epoxy-clerod-14-en-13 $\zeta$ -ol	<i>Jungermannia paroica</i>	<i>Phytochemistry</i> , 1992, <b>31</b> , 1420-1421

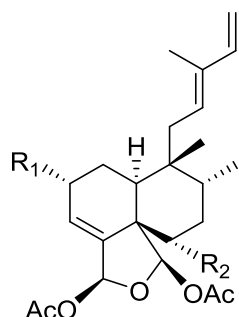


<b>1089</b>	bis-norinfuscaic acid	<i>Jungermannia infusca</i>	<i>Phytochemistry</i> , 1998, <b>49</b> , 601-608
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### LAETIA Genus

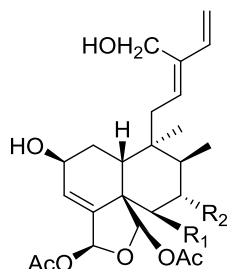


<b>25</b>	corymbulosin A	<i>Laetia corymbulosa</i>	<i>Phytochemistry</i> , 2000, <b>55</b> , 233-236
<b>26</b>	corymbulosin B		
<b>27</b>	corymbulosin C		



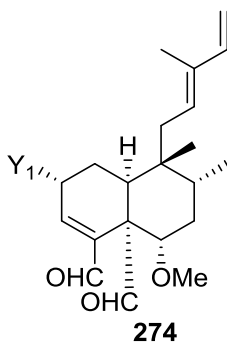
- 101** R<sub>1</sub> = Y<sub>1</sub>, R<sub>2</sub> = OH  
**102** R<sub>1</sub> = OiBu, R<sub>2</sub> = OBz  
**103** R<sub>1</sub> = Y<sub>1</sub>, R<sub>2</sub> = OBz

<b>101</b>	laetiaprocerine A	<i>Laetia procera</i>	<i>Bioorg. Med. Chem. Lett.</i> , 2005, <b>15</b> , 5065–5070
<b>102</b>	laetiaprocerine B		
<b>103</b>	laetiaprocerine C		



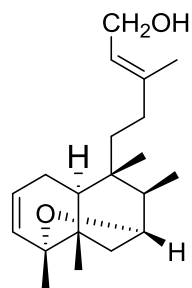
- 129** R<sub>1</sub> = OMyr, R<sub>2</sub> = OH  
**130** R<sub>1</sub> = OPal, R<sub>2</sub> = OH  
**131** R<sub>1</sub> = OH, R<sub>2</sub> = OMyr  
**132** R<sub>1</sub> = OH, R<sub>2</sub> = OPal

<b>129</b>	<i>rel</i> -18( <i>S</i> ),19( <i>R</i> )-diacetoxy-18,19-epoxy-2( <i>R</i> ),7( <i>S</i> ),16-trihydroxy-6( <i>S</i> )-myristoyloxy-5( <i>R</i> ),8( <i>R</i> ),9( <i>S</i> ),10( <i>R</i> )-cleroda-3,12,14-triene	<i>Laetia procera</i>	<i>Phytochemistry</i> , 1996, <b>43</b> , 635-638
<b>130</b>	<i>rel</i> -18( <i>S</i> ),19( <i>R</i> )-diacetoxy-18,19-epoxy-2( <i>R</i> ),7( <i>S</i> ),16-trihydroxy-6( <i>S</i> )-palmitoyloxy-5( <i>R</i> ),8( <i>R</i> ),9( <i>S</i> ),10( <i>R</i> )-cleroda-3,12,14-triene		
<b>131</b>	<i>rel</i> -18( <i>S</i> ),19( <i>R</i> )-diacetoxy-18,19-epoxy-2( <i>R</i> ),6( <i>S</i> ),16-trihydroxy-7( <i>S</i> )-myristoyloxy-5( <i>R</i> ),8( <i>R</i> ),9( <i>S</i> ),10( <i>R</i> )-cleroda-3,12,14-triene		
<b>132</b>	<i>rel</i> -18( <i>S</i> ),19( <i>R</i> )-diacetoxy-18,19-epoxy-2( <i>R</i> ),7( <i>S</i> ),16-trihydroxy-6( <i>S</i> )-palmitoyloxy-5( <i>R</i> ),8( <i>R</i> ),9( <i>S</i> ),10( <i>R</i> )-cleroda-3,12,14-triene		



<b>274</b>	laetiaprocerine D	<i>Laetia procera</i>	<i>Bioorg. Med. Chem. Lett.</i> , 2005, <b>15</b> , 5065–5070
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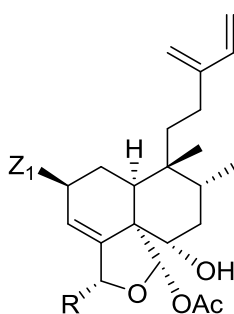
**LEONURUS Genus**



**276**

<b>276</b>	leojaponin A	<i>Leonurus japonicus</i>	<i>Chin. Chem. Lett.</i> , 2014, <b>25</b> , 677-679
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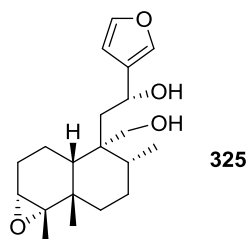
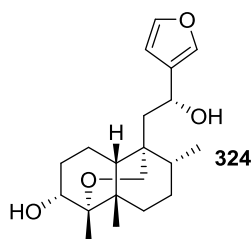
**LICANIA Genus**



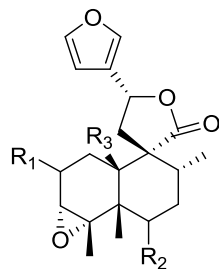
**35** R = OMe  
**36** R = OAc

<b>35</b>	intrapetacin A	<i>Licania intrapetiolaris</i>	<i>J. Nat. Prod.</i> , 2001, <b>64</b> , 497-501
<b>36</b>	intrapetacin B		

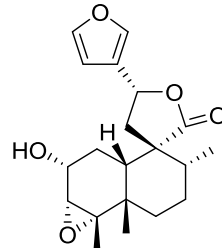
**MICROGLOSSA Genus**



<b>324</b>	3 $\alpha$ ,12-dihydroxy-4 $\alpha$ ,20,15,16-bisepoxy-8 $\beta$ ,10 $\beta$ H-ent-cleroda-13(16),14-diene	<i>Microglossa pyrrhopappa</i>	<i>Phytochemistry</i> , 1990, <b>29</b> , 3233-3241
<b>325</b>	12,20-dihydroxy-3 $\alpha$ ,4 $\alpha$ ,15,16-bisepoxy-8 $\beta$ ,10 $\beta$ H-ent-cleroda-13(16),14-diene		

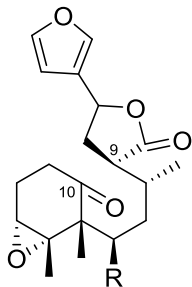


760-763



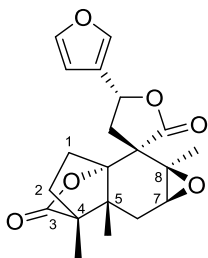
767

		R1	R2	R3		
760	2 $\alpha$ -hydroxy-3 $\alpha$ ,4 $\alpha$ ,15,16-bis-epoxy-8 $\beta$ ,10 $\beta$ H- <i>ent</i> -cleroda-13(16),14-diene-20,12-olide	$\alpha$ OH	H	H	<i>Microglossa pyrrhopappa</i>	<i>Phytochemistry</i> , 1990, <b>29</b> , 3233-3241
761	6 $\beta$ ,10 $\beta$ -dihydroxy-3 $\alpha$ ,4 $\alpha$ ,15,16-bis-epoxy-8 $\beta$ H-cleroda-13(16),14-diene-20,12-olide	H	$\beta$ OH	OH		
762	6 $\beta$ -angeloyloxy-10 $\beta$ -hydroxy-3 $\alpha$ ,4 $\alpha$ ,15,16-bis-epoxy-8 $\beta$ H-cleroda-13(16),14-diene-20,12-olide	H	$\beta$ OAng	OH		
763	6 $\beta$ -[2-methylbutyryloxy]-10 $\beta$ -hydroxy-3 $\alpha$ ,4 $\alpha$ ,15,16-bis-epoxy-8 $\beta$ H-cleroda-13(16),14-diene-20,12-olide	H	$\beta$ MeBu	OH		
767	2 $\alpha$ -hydroxy-3 $\alpha$ ,4 $\alpha$ ,15,16-bis-epoxy-8 $\beta$ H- <i>ent</i> -cleroda-1(10),13(16),14-diene-20,12-olide	—	—	—		

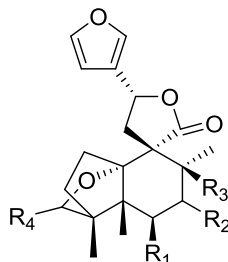


1104-1109

		R		
1104	pyrrhopappolide	H	<i>Microglossa pyrrhopappa</i>	<i>Phytochemistry</i> , 1990, <b>29</b> , 3233-3241
1105	6 $\beta$ -hydroxypyrrhopappolide	OH		
1106	6 $\beta$ -angeloyloxy-pyrrhopappolide	OAng		
1107	6 $\beta$ -seneciolyloxy-pyrrhopappolide	OSen		
1108	6 $\beta$ -tigloyloxy-pyrrhopappolide	OTig		
1109	6 $\beta$ -[2-methylbutyryloxy]-pyrrhopappolide	OMeBu		

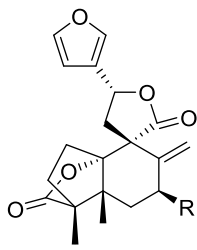


1182

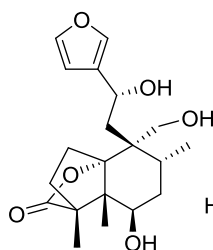


1183-1187

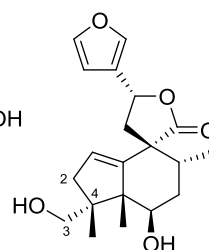
		R1	R2	R3	R4		
1182	7β,8β-epoxyisochiliolide lactone	—	—	—	—	<i>Microglossa pyrrhopappa</i>	<i>Phytochemistry</i> , 1990, <b>29</b> , 3233-3241
1183	6β-angeloyloxyisochiliolide lactone	OAng	H	H	=O		
1184	6β-[2-methylbutyryloxy]-isochiliolide lactone	OMeBu	H	H	=O		
1185	8β-hydroxyisochiliolide lactone	H	H	OH	=O		
1186	isochiliolide lactone	H	H	H	=O		
1187	7β-angeloyloxyisochiliolide lactone	H	βOAng	βH	=O		



1191 R = H  
1192 R = OAc



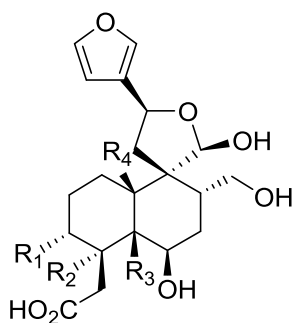
1193



1194

1191	8(17)-dehydroisochiliolide lactone	<i>Microglossa pyrrhopappa</i>	<i>Phytochemistry</i> , 1990, <b>29</b> , 3233-3241
1192	7β-acetoxy-8(17)-dehydroisochiliolide lactone		
1193	6β-hydroxyisochiliolide		
1194	6β-hydroxy-incana-pteroniolide		

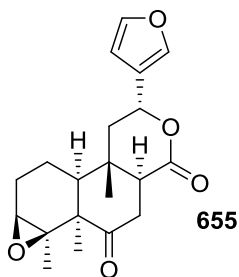
**MUSA Genus**



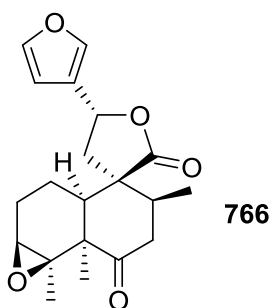
**791-793**

<b>791</b>	musabalbisiene A	OH	CO <sub>2</sub> H	CHO	CHO	<i>Musa balbisiiana</i>	<i>Phytochemistry</i> , 1992, <b>31</b> , 2173-2175
<b>792</b>	musabalbisiene B	OH	CHO	CO <sub>2</sub> H	CH <sub>2</sub> OH		
<b>793</b>	musabalbisiene C	OAng	CH <sub>2</sub> OH	CH <sub>2</sub> OH	CH <sub>2</sub> OH		

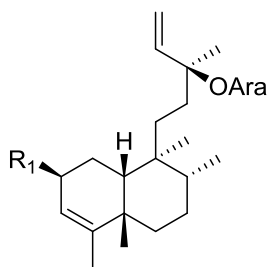
**NANNOGLOTTIS Genus**



<b>655</b>	ravidin A	<i>Nannoglottis ravida</i>	<i>Phytochemistry</i> , 2004, <b>65</b> , 2533-2537
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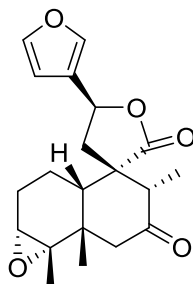
<b>766</b>	ravidin B	<i>Nannoglottis ravida</i>	<i>Phytochemistry</i> , 2004, <b>65</b> , 2533-2537
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907-909

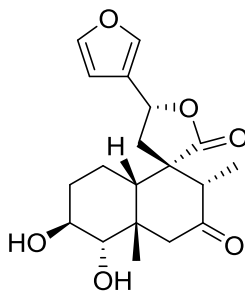
907	(5 <i>S</i> ,8 <i>R</i> ,9 <i>S</i> ,10 <i>R</i> ,13 <i>S</i> )-10βH-13- <i>O</i> -α-L-arabinopyranosyl-2-oxo-17α,19β,20α-trimethyl-3,14-clerodadiene	=O	<i>Nannoglottis carpesioides</i>	<i>Fitoterapia</i> , 2014, <b>93</b> , 39-46
908	(5 <i>S</i> ,8 <i>R</i> ,9 <i>S</i> ,10 <i>R</i> ,13 <i>S</i> )-10βH-13- <i>O</i> -α-L-arabinopyranosyl-17α,19β,20α-trimethyl-3,14-clerodadiene	H		
909	(5 <i>S</i> ,8 <i>R</i> ,9 <i>S</i> ,10 <i>R</i> ,13 <i>S</i> )-10βH-13- <i>O</i> -α-L-arabinopyranosyl-2β-hydroperoxyl-17α,19β,20α-trimethyl-3,14-clerodadiene	OOH		

**NARDOPHYLLUM Genus**



755

755	—	<i>Nardophyllum lanatum</i>	<i>Phytochemistry</i> , 1990, <b>29</b> , 1227-1230
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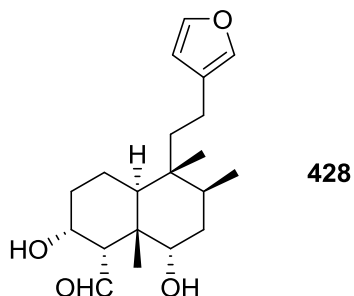


1061

1061	—	<i>Nardophyllum lanatum</i>	<i>Phytochemistry</i> , 1990, <b>29</b> , 1227-1230
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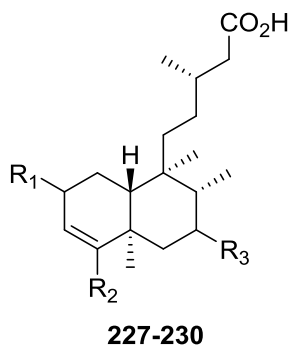


**NEPETA Genus**



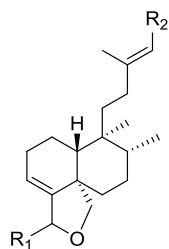
<b>428</b>	nepetalanal	<i>Nepeta juncea</i>	<i>Magn. Reson. Chem.</i> , 2009, <b>47</b> , 625-627
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**NUXIA Genus**

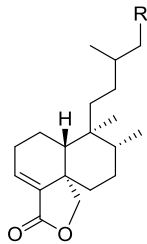


		R1	R2	R3		
<b>227</b>	(13 <i>S</i> )- <i>ent</i> -7β-hydroxy-3-cleroden-15-oic acid	H	Me	αOH	<i>Nuxia sphaerocephala</i>	<i>Phytochemistry</i> , 2006, <b>67</b> , 444-451
<b>228</b>	<i>ent</i> -7β-hydroxy-2-oxo-3-cleroden-15-oic acid	=O	Me	αOH		
<b>229</b>	<i>ent</i> -2,7-dioxo-3-cleroden-15-oic acid	=O	Me	=O		
<b>230</b>	<i>ent</i> -18-( <i>E</i> )-caffeoyloxy-7β-hydroxy-3-cleroden-15-oic acid	H	CH <sub>2</sub> Z <sub>4</sub>	αOH		

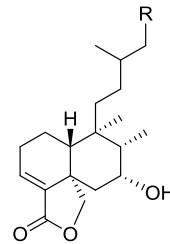
**OLEARIA Genus**



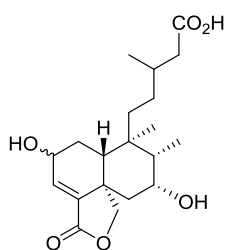
**136** R<sub>1</sub> = =O, R<sub>2</sub> = CH<sub>2</sub>OMal  
**137** R<sub>1</sub> = β-OMe, R<sub>2</sub> = CO<sub>2</sub>H  
**138** R<sub>1</sub> = α-OMe, R<sub>2</sub> = CO<sub>2</sub>H



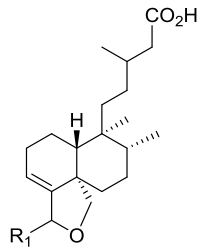
**139** R = CO<sub>2</sub>H  
**140** R = CH<sub>2</sub>OMal  
**145** R = CH<sub>2</sub>OH



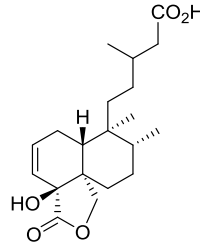
**141** R = CO<sub>2</sub>H  
**142** R = CH<sub>2</sub>OMal  
**146** R = CH<sub>2</sub>OH



**143** C-2α  
**144** C-2β

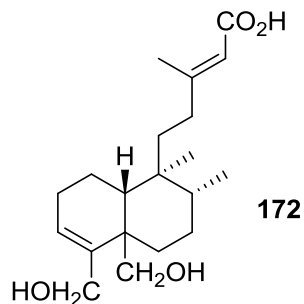


**147** R = β-OMe  
**148** R = α-OMe

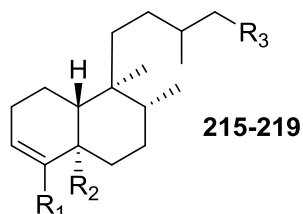


**149**

<b>136</b>	15-malonyloxy- <i>ent</i> -cleroda-3,13 <i>E</i> -dien-18,19-olide	<i>Olearia teretifolia</i>	<i>Phytochemistry</i> , 1992, <b>31</b> , 1703-1711
<b>137</b>	18,19-epoxy-18β-methoxy- <i>ent</i> -cleroda-3,13 <i>E</i> -dien-15-oic acid		
<b>138</b>	18,19-epoxy-18α-methoxy- <i>ent</i> -cleroda-3,13 <i>E</i> -dien-15-oic acid		
<b>139</b>	<i>ent</i> -clerod-3-en-15-oic acid-18,19-olide		
<b>140</b>	15-malonyloxy- <i>ent</i> -clerod-3-en-18,19-olide		
<b>141</b>	15-malonyloxy-7α-hydroxy- <i>ent</i> -clerod-3-en-18,19-olide		
<b>142</b>	7α-hydroxy- <i>ent</i> -clerod-3-en-15-oic acid-18,19-olide		
<b>143</b>	2α-hydroxy- <i>ent</i> -cleroda-3-en-15-oic acid-18,19-olide		
<b>144</b>	2β-hydroxy- <i>ent</i> -clerod-3-en-15-oic acid-18,19-olide		
<b>145</b>	15-hydroxy- <i>ent</i> -clerod-3-en-18,19-olide		
<b>146</b>	7α,15-dihydroxy- <i>ent</i> -clerod-3-en-18,19-olide		
<b>147</b>	18,19-epoxy-18β-methoxy- <i>ent</i> -clerod-3-en-15-oic acid		
<b>148</b>	18,19-epoxy-18α-methoxy- <i>ent</i> -clerod-3-en-15-oic acid		
<b>149</b>	4β-hydroxy- <i>ent</i> -clerod-2-en-15-oic acid-18,19-olide		

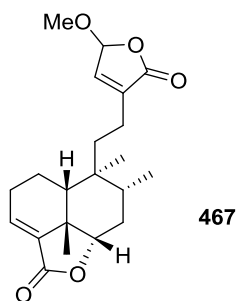


<b>172</b>	18,19-dihydroxy- <i>ent</i> -cleroda-3,13 <i>E</i> -dien-15-oic acid	<i>Olearia teretifolia</i>	<i>Phytochemistry</i> , 1992, <b>31</b> , 1703-1711
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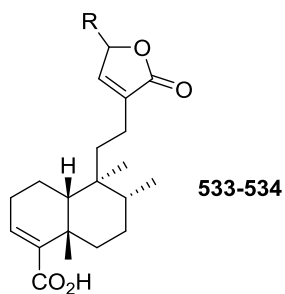


		R1	R2	R3		
<b>215</b>	19-hydroxykovoalic acid	CO <sub>2</sub> H	CH <sub>2</sub> OH	CO <sub>2</sub> H	<i>Olearia teretifolia</i>	<i>Phytochemistry</i> , 1992, <b>31</b> , 1703-1711
<b>216</b>	18-oxo-19-seneciyl-oxy- <i>ent</i> -clerod-3-en-15-oic acid	CHO	CH <sub>2</sub> OSen	CO <sub>2</sub> H		
<b>217</b>	18-oxo- <i>ent</i> -clerod-3-en-15,19-dioic acid	CHO	CO <sub>2</sub> H	CO <sub>2</sub> H		
<b>218</b>	15,19-dihydroxy- <i>ent</i> -clerod-3-en-18-oic acid	CO <sub>2</sub> H	CH <sub>2</sub> OH	CH <sub>2</sub> OH		
<b>219</b>	15,18,19-trihydroxy- <i>ent</i> -clerod-3-ene	CH <sub>2</sub> OH	CH <sub>2</sub> OH	CH <sub>2</sub> OH		

**OTOSTEGIA Genus**

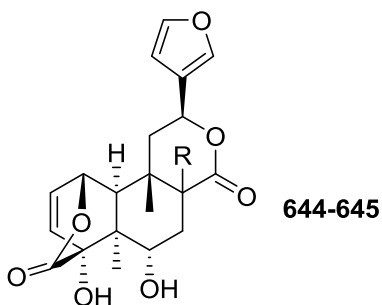


<b>467</b>	limbatolide A	<i>Otostegia limbata</i>	<i>Chem. Pharm. Bull.</i> , 2005, <b>53</b> , 378-381
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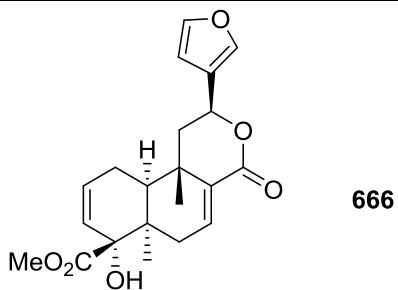


<b>533</b>	limbatolide B	OMe	<i>Otostegia limbata</i>	<i>Chem. Pharm. Bull.</i> , 2005, <b>53</b> , 378-381
<b>534</b>	limbatolide C	H		

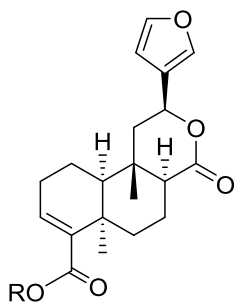
**PENIANTHUS Genus**



<b>645</b>	6-hydroxycolumbin	$\beta$ H	<i>Penianthus zenkeri</i>	<i>Phytochemistry</i> , 1991, <b>30</b> , 1957-1962
<b>646</b>	6-hydroxyisocolumbin	$\alpha$ H		

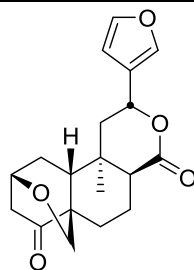


<b>666</b>	penianthic acid methyl ester	<i>Penianthus zenkeri</i>	<i>Phytochemistry</i> , 1991, <b>30</b> , 1957-1962
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958-959

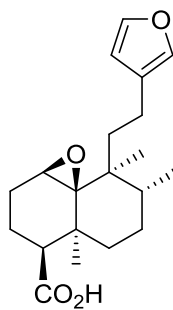
<b>958</b>	floribundic acid glucoside	Glc	<i>Penianthus zenkeri</i>	<i>Phytochemistry</i> , 1991, <b>30</b> , 1957-1962
<b>959</b>	zenkerin	-Xyl-(1→6)-Glc		



1060

<b>1060</b>	peniankerine	<i>Penianthus zenkeri</i>	<i>Phytochemistry</i> , 1997, <b>46</b> , 165-167
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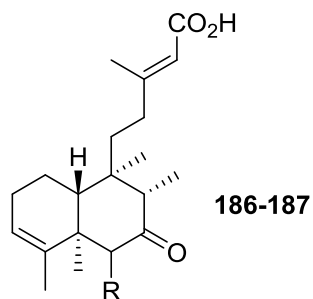
**PHLOMIS Genus**



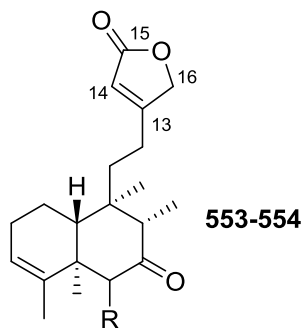
376

<b>376</b>	phlomeic acid	<i>Phlomis bracteosa</i>	<i>Nat. Prod. Commun.</i> , 2011, <b>6</b> , 171-173
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**PLATYCHAETE Genus**

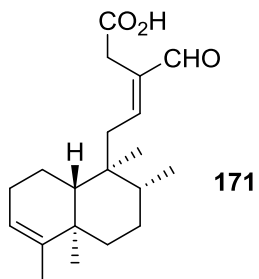


<b>186</b>	7-oxo-ent-clerodan-3,13E-dien-15-oic acid	H	<i>Platychaete aucheri</i>	<i>Phytochemistry</i> , 1990, <b>29</b> , 985-987
<b>187</b>	6 $\alpha$ -hydroxy-7-oxo-ent-clerodan-3,13E-dien-15-oic acid	$\alpha$ OH		

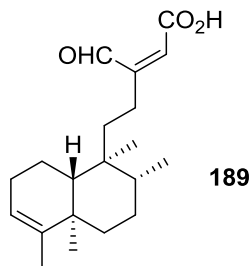


<b>553</b>	7-oxo-ent-clerodan-3,13-dien-15,16-olide	H	<i>Platychaete aucheri</i>	<i>Phytochemistry</i> , 1990, <b>29</b> , 985-987
<b>554</b>	6-hydroxy-7-oxo-ent-clerodane-3,13-dien-15,16-olide	$\alpha$ OH		

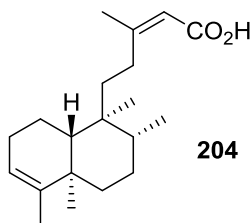
**POLYALTHIA Genus**



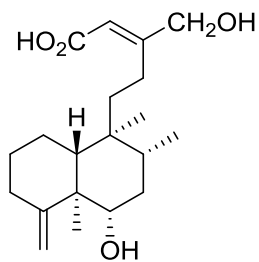
<b>171</b>	3,12E-kolavadien-15-oic acid-16-al	<i>Polyalthia viridis</i>	<i>Phytochemistry</i> , 1993, <b>34</b> , 457-460
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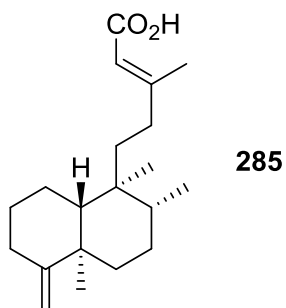
<b>189</b>	polyalthialdoic acid	<i>Polyalthia longifolia</i>	<i>Planta Med.</i> , 1991, <b>57</b> , 380-383
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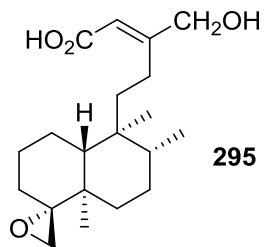
<b>204</b>	16-oxo-cleroda-3,13(14) <i>E</i> -diene-15-oic acid	<i>Polyalthia longifolia</i>	<i>Fitoterapia</i> , 2005, <b>76</b> , 336-339
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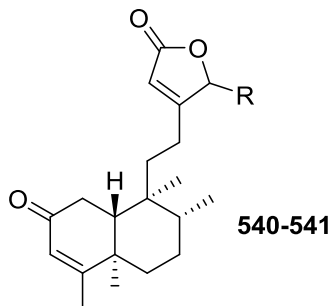
<b>281</b>	6 $\alpha$ ,16-dihydroxycleroda-4(18),13-dien-15-oic acid	<i>Polyalthia longifolia</i>	<i>J. Nat. Prod.</i> , 2009, <b>72</b> , 1960-1963
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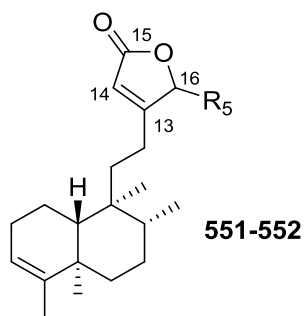
<b>285</b>	cleroda-4(18),13(14) <i>E</i> -dien-15-oic acid	<i>Polyalthia cheliensis</i>	<i>Phytochemistry</i> , 1995, <b>39</b> , 447-448
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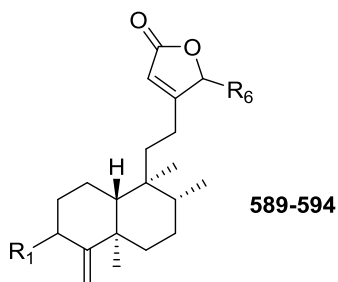
<b>295</b>	4 $\alpha$ ,18 $\beta$ -epoxy-16-hydroxycycloclerod-13-en-15-oic acid	<i>Polyalthia longifolia</i>	<i>J. Nat. Prod.</i> , 2009, <b>72</b> , 1960-1963
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<b>540</b>	16( <i>R</i> )-3,13 <i>Z</i> -kolavadien-16,15-olide-2-one	$\alpha$ OH	<i>Polyalthia viridis</i>	<i>Phytochemistry</i> , 1990, <b>29</b> , 653-655
<b>541</b>	16( <i>S</i> )-3,13 <i>Z</i> -kolavadien-16,15-olide-2-one	$\beta$ OH		



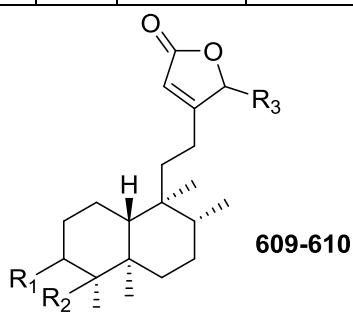
<b>551</b>	16 $\alpha$ -hydroxy-cleroda-3,13 <i>Z</i> -diene-15,16-olide	$\alpha$ OH	<i>Polyalthia longifolia</i>	<i>Fitoterapia</i> , 2005, <b>76</b> , 336-339
<b>552</b>	16 $\alpha$ -methoxycyclocleroda-3,13 <i>Z</i> -dien-16,15-olide	$\alpha$ OMe		<i>J. Nat. Prod.</i> , 1992, <b>55</b> , 256-258



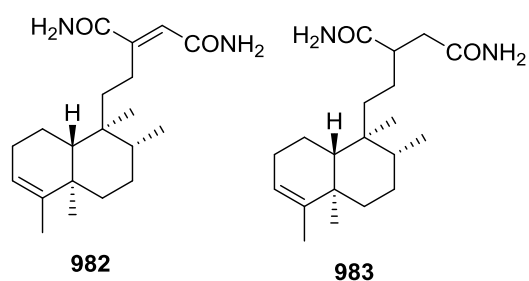
		R1	R2		
<b>589</b>	(-)-3 $\alpha$ ,16 $\alpha$ -dihydroxycyclocleroda-4(18),13(14) <i>Z</i> -dien-15,16-olide	$\alpha$ OH	$\alpha$ OH	<i>Polyalthia longifolia</i>	<i>Nat. Prod. Res.</i> , 2010, <b>24</b> , 1687-1694



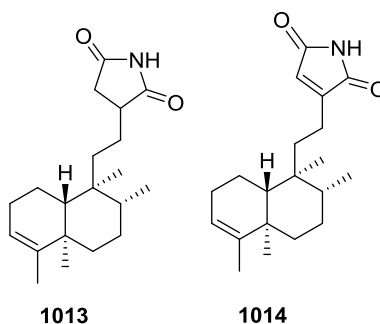
590	3 $\beta$ ,16 $\alpha$ -dihydroxycleroda-4(18),13(14) <i>Z</i> -dien-15,16-olide	$\beta$ OH	$\alpha$ OH	<i>Polyalthia barnesii</i>	<i>Phytochemistry</i> 1994, <b>37</b> , 1659-1662
591	cleroda-4(18),13-dien-16,15-olide	H	H	<i>Polyalthia longifolia</i>	<i>Phytochemistry</i> 1995, <b>38</b> , 189-194
592	16-hydroxycleroda-4(18),13-dien-16,15-olide	H	OH ( $\alpha/\beta$ 1:1)		
593	—	H	$\beta$ OH		
594	16( <i>R</i> & <i>S</i> )-methoxycleroda-4(18),13-dien-15,16-olide	H	OMe	<i>Polyalthia longifolia</i> var. <i>pendula</i>	<i>Molecules</i> , 2014, <b>19</b> , 2049-2060



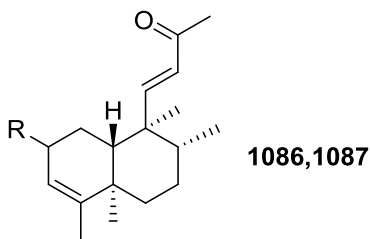
		R1	R2	R3		
609	4 $\beta$ ,16 $\alpha$ -dihydroxycleroda-13(14) <i>Z</i> -en-15,16-olide	H	$\beta$ OH	$\alpha$ OH	<i>Polyalthia barnesii</i>	<i>Phytochemistry</i> 1994, <b>37</b> , 1659-1662
610	16-hydroxycleroda-13-ene-15,16-olide-3-one	=O	H	OH	<i>Polyalthia longifolia</i> var. <i>pendula</i>	<i>Planta Med.</i> , 2006, <b>72</b> , 1344-1347



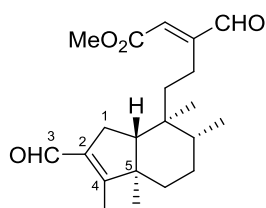
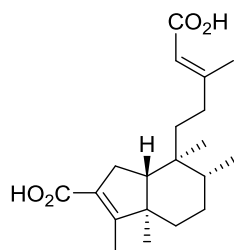
<b>982</b>	cleroda-3,13(14) <i>E</i> -diene-15,16-diamide	<i>Polyalthia longifolia</i>	<i>Phytochem. Lett.</i> , 2015, <b>11</b> , 28-31
<b>983</b>	cleroda-3-ene-15,16-diamide		



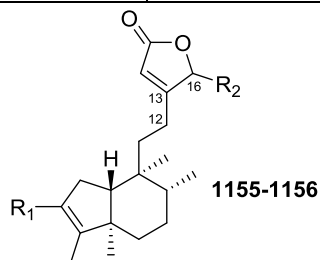
<b>1013</b>	cleroda-3-ene yrrolidine-15,16-dione	<i>Polyalthia longifolia</i>	<i>Phytochem. Lett.</i> , 2015, <b>11</b> , 28-31
<b>1014</b>	cleroda-3-ene yrrole-15,16-dione		



<b>1086</b>	2-oxo-14,15-bisnor-3,11 <i>E</i> -kolavadien-13-one	=O	<i>Polyalthia simiarum</i>	<i>Nat. Prod. Commun.</i> , 2010, <b>5</b> , 1543-1546
<b>1087</b>	14,15-bisnor-3,11 <i>E</i> -kolavadien-13-one	H	<i>Polyalthia viridis</i>	<i>Phytochemistry</i> , 1990, <b>29</b> , 653-655

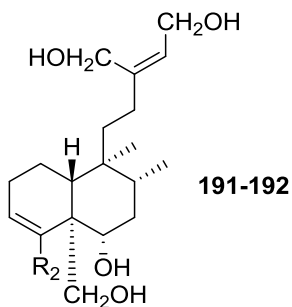


<b>1148</b>	(4→2)- <i>abeo</i> -cleroda-2,13 <i>E</i> -dien-2,14-dioic acid	<i>Polyalthia longifolia</i> var. <i>pendula</i>	<i>Molecules</i> , 2014, <b>19</b> , 2049-2060
<b>1149</b>	(4→2)- <i>abeo</i> -2,13-diformyl-cleroda-2,13 <i>E</i> -dien-14-oic acid		

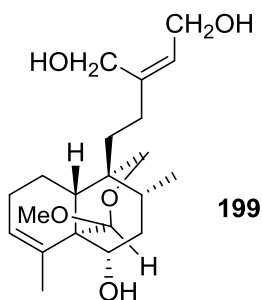


		R1	R2		
<b>1155</b>	(4→2)- <i>abeo</i> -16(R&S)-2,13 <i>Z</i> -kolavadien-16,15-olide-3-al	CHO	βOH	<i>Polyalthia viridis</i>	<i>Phytochemistry</i> , 1990, <b>29</b> , 653-655
<b>1156</b>	polylongifoliaic A	CO <sub>2</sub> H	OH	<i>Polyalthia longifolia</i> var. <i>pendula</i>	<i>RSC Advances</i> , 2014, <b>4</b> , 23707-23712

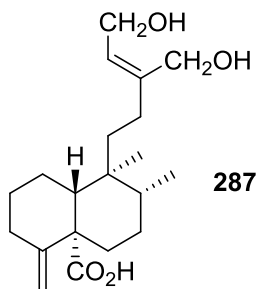
**PORTULACA Genus**



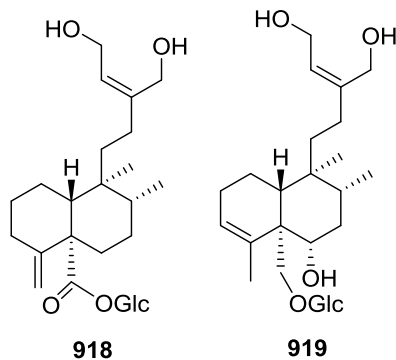
<b>191</b>	pilosanol A	Me	<i>Portulaca pilosa</i>	<i>Phytochemistry</i> , 1991, <b>30</b> , 4075-4077
<b>192</b>	pilosanol B	CH <sub>2</sub> OH		



<b>199</b>	portulene acetal	<i>Portulaca grandiflora</i>	<i>J. Nat. Prod.</i> , 1997, <b>60</b> , 912-914
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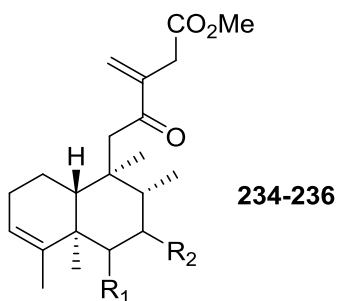


<b>287</b>	porwenin A	<i>Portulaca okinawensis</i>	<i>J. Nat. Prod.</i> , 2001, <b>64</b> , 804-805
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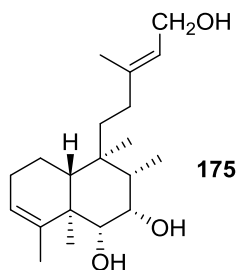
<b>918</b>	porwenin B	<i>Portulaca okinawensis</i>	<i>J. Nat. Prod.</i> , 2001, <b>64</b> , 804-805
<b>919</b>	pilosanol C	<i>Portulaca pilosa</i>	<i>Phytochemistry</i> , 1991, <b>30</b> , 4075-4077

**PREMNA Genus**

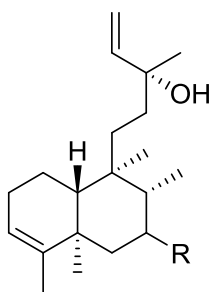


		R1	R2		
<b>234</b>	premnone A	$\alpha$ OCin ( <i>trans</i> )	$\beta$ OH	<i>Premna tomentosa</i>	<i>Phytochemistry</i> , 2006, <b>67</b> , 1243–1248
<b>235</b>	premnone B	$\alpha$ OCin ( <i>cis</i> )	$\beta$ OH		
<b>236</b>	premnone C	$\alpha$ OH	$\beta$ OCin ( <i>trans</i> )		

**PTYCHOPETALUM Genus**

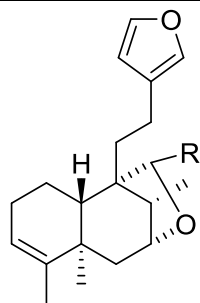


<b>175</b>	6 $\alpha$ ,7 $\alpha$ -dihydroxykolavenol	<i>Ptychopetalum olacoides</i>	<i>Nat. Prod. Commun.</i> , 2011, <b>6</b> , 327-332
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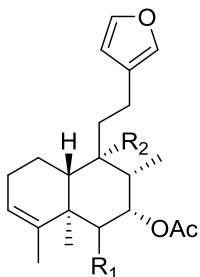
237-238

237	7-oxo-kolavelool	=O	<i>Ptychopetalum olacoides</i>	<i>Nat. Prod. Commun.</i> , 2011, <b>6</b> , 327-332
238	7 $\alpha$ -hydroxykolavelool	$\alpha$ OH		



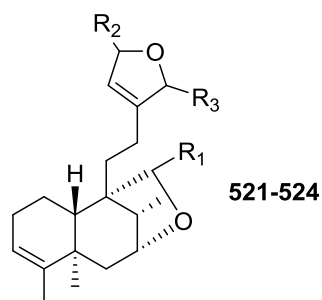
327-329

327	ptychonolide	=O	<i>Ptychopetalum olacoides</i>	<i>J. Nat. Prod.</i> , 2008, <b>71</b> , 1760-1763
328	20- <i>O</i> -methylptychonal acetal	$\beta$ OMe		
329	ptychonal hemiacetal	$\beta$ OH		



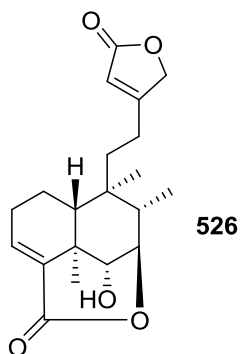
380, 382-383

		R1	R2		
380	ptychonal	H	CHO	<i>Ptychopetalum olacoides</i>	<i>J. Nat. Prod.</i> , 2008, <b>71</b> , 1760-1763
382	6 $\alpha$ ,7 $\alpha$ -dihydroxyannonene	$\alpha$ OH	Me	<i>Ptychopetalum olacoides</i>	<i>Bioorg. Med. Chem. Lett.</i> , 2009, <b>19</b> , 882-886
383	7 $\alpha$ ,20-dihydroxyannonene	H	CH <sub>2</sub> OH		

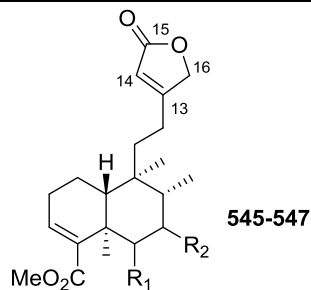
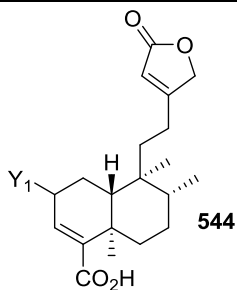


		R1	R2	R3		
<b>521</b>	ptycholide I	=O	OMe	=O	<i>Ptychopetalum olacoides</i>	<i>Nat. Prod. Commun.</i> , 2011, <b>6</b> , 327-332
<b>522</b>	ptycholide II	OMe	OMe	=O		
<b>523</b>	ptycholide III	OMe	H	=O		
<b>524</b>	ptycholide IV	OMe	=O	OH		

**PULICARIA Genus**

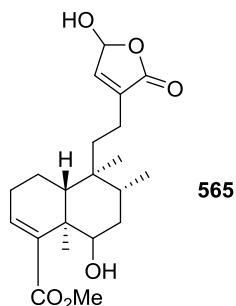


<b>526</b>	6 $\alpha$ -hydroxycleroda-3,13-dien-15(16),4(7)-diolide	<i>Pulicaria wightiana</i>	<i>Helv. Chim. Acta.</i> , 2008, <b>91</b> , 2081-2088
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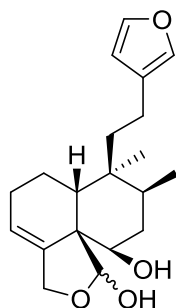
		R1	R2		
<b>544</b>	2 $\beta$ -(2-methylbutanoyl)cleroda-3,13-dien-15,16-olid-18-oic acid	—	—	<i>Pulicaria wightiana</i>	<i>Helv. Chim. Acta.</i> , 2008, <b>91</b> , 2081-2088
<b>545</b>	methyl 6-oxocleroda-3,13-dien-15,16-olid-18-	=O	H		

	oate				
546	methyl 6 $\alpha$ -hydroxycyclo-3,13-dien-15,16-olid-18-oate	$\alpha$ OH	H		
547	methyl 6 $\alpha$ ,7 $\alpha$ -dihydroxycyclo-3,13-dien-15,16-olid-18-oate	$\alpha$ OH	$\alpha$ OH		

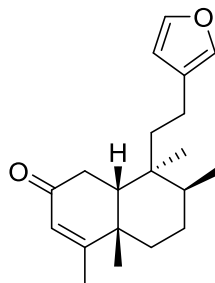


565	methyl 6,15-dihydroxycyclo-3,13-dien-16,15-olid-18-oate	<i>Pulicaria wightiana</i>	<i>Helv. Chim. Acta.</i> , 2008, <b>91</b> , 2081-2088
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**RASPAILIA Genus**

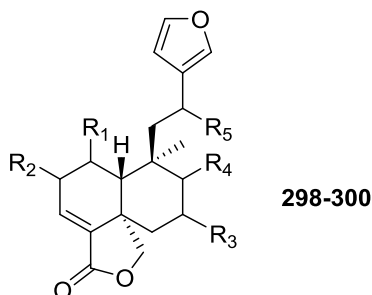


301	raspailol	<i>Raspailia</i> species	<i>Phytochemistry</i> , 1995, <b>39</b> , 443-445
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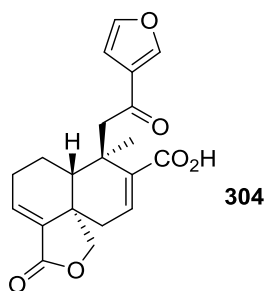


397	raspailenone	<i>Raspailia</i> species	<i>Phytochemistry</i> , 1995, <b>39</b> , 443-445
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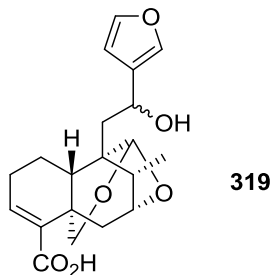
**SALVIA Genus**



		R1	R2	R3	R4	R5		
<b>298</b>	2 $\alpha$ -hydroxy-7 $\alpha$ -acetoxy-12-oxo-15:16-epoxy-neoclerodan-3,13(16),14-trien-18:19-olide	H	OH	$\alpha$ OAc	$\alpha$ Me	=O	<i>Salvia urolepis</i>	<i>Phytochemistry</i> , 1995, <b>38</b> , 171-174
<b>299</b>	—	H	H	$\beta$ OAc	$\alpha$ Me	OH	<i>Salvia miniata</i>	<i>Phytochemistry</i> , 2011, <b>72</b> , 265-275
<b>300</b>	<i>ent</i> -(5 <i>R</i> ,9 <i>S</i> ,10 <i>S</i> )-7 <i>S</i> -acetoxy-15,16-epoxy-1 <i>S</i> ,2 <i>S</i> ,12 $\zeta$ -trihydroxy-cleroda-3,13(16),14-trien-18,19-olide	$\alpha$ OH	$\beta$ OH	$\alpha$ OAc	$\beta$ Me	OH	<i>Salvia haenke</i>	<i>Tetrahedron</i> , 1997, <b>53</b> , 14719-14728

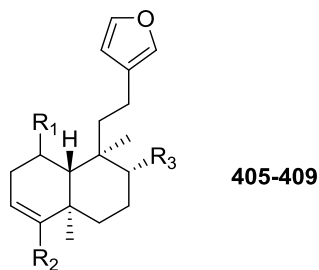


<b>304</b>	dugesin G	<i>Salvia dugesii</i>	<i>Nat. Prod. Bioprospect.</i> , 2011, <b>1</b> , 81-86
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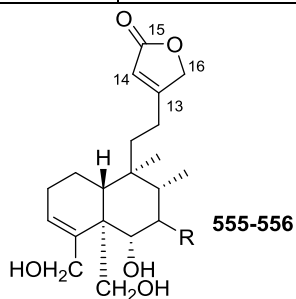


<b>319</b>	—	<i>Salvia miniata</i>	<i>Phytochemistry</i> , 2011, <b>72</b> , 265-275
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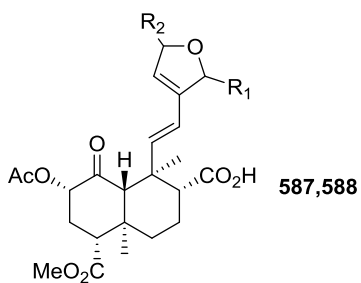




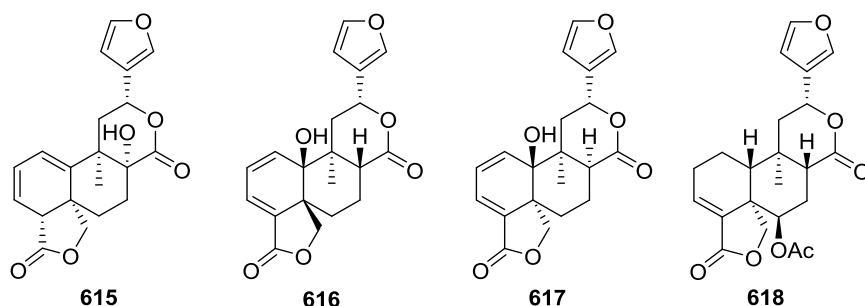
		R1	R2	R3		
<b>405</b>	divinatorin A	$\alpha$ OH	CO <sub>2</sub> H	Me	<i>Salvia divinorum</i>	<i>J. Nat. Prod.</i> , 2003, <b>66</b> , 1242-1244
<b>406</b>	divinatorin B	$\alpha$ OH	CO <sub>2</sub> Me	CH <sub>2</sub> OH		
<b>407</b>	divinatorin C	H	CO <sub>2</sub> H	CH <sub>2</sub> OAc		
<b>408</b>	(-)-hardwickiic acid	H	CO <sub>2</sub> H	Me		
<b>409</b>	divinatorin D	$\alpha$ OH	CO <sub>2</sub> Me	CH <sub>2</sub> OAc	<i>Salvia divinorum</i>	<i>Bioorg. Med. Chem.</i> , 2005, <b>13</b> , 5635-5639
<b>410</b>	divinatorin E	$\alpha$ OH	CO <sub>2</sub> Me	CHO		



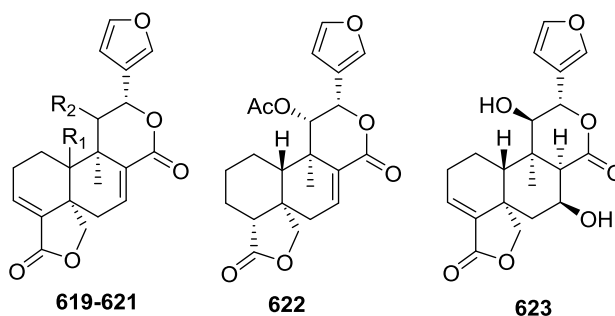
<b>555</b>	thymonin	H	<i>Salvia thymoides</i>	<i>Phytochemistry</i> , 1997, <b>46</b> , 1249-1254
<b>556</b>	7 $\beta$ -hydroxythymonin	$\beta$ OH		



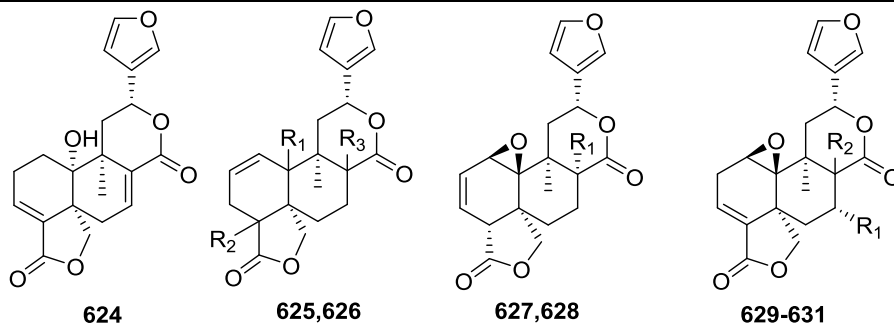
<b>587</b>	salvidivin C	OH	=O	<i>Salvia divinorum</i>	<i>J. Nat. Prod.</i> , 2006, <b>69</b> , 1782-1786
<b>588</b>	salvidivin D	=O	OH		



<b>615</b>	tehuanin D	<i>Salvia herbacea</i>	<i>J. Nat. Prod.</i> , 2012, <b>75</b> , 951-958
<b>616</b>	salvimicrophyllin C	<i>Salvia microphylla</i>	<i>J. Nat. Prod.</i> , 2014, <b>77</b> , 1088-1092
<b>617</b>	salvimicrophyllin D		
<b>618</b>	dugesin E	<i>Salvia dugesii</i>	<i>Nat. Prod. Bioprospect.</i> , 2011, <b>1</b> , 81-86

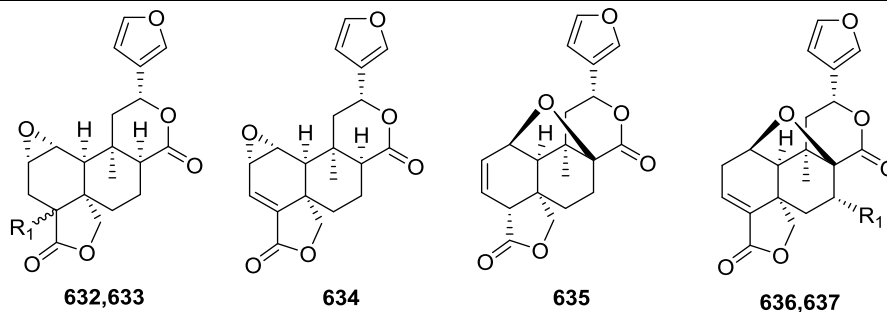


<b>619</b>	<i>ent</i> -(5 <i>R</i> ,9 <i>R</i> )-15,16-epoxy-10 <i>S</i> -hydroxy-cleroda-3,13(16),14-triene-17,12 <i>S</i> ;18,19-diolide	$\alpha$ OH	H	<i>Salvia haenkei</i>	<i>Tetrahedron</i> , 1997, <b>53</b> , 14719-14728
<b>620</b>	—	$\beta$ H	$\alpha$ OH	<i>Salvia miniata</i>	<i>Phytochemistry</i> , 2011, <b>72</b> , 265-275
<b>621</b>	—	$\beta$ OH	H		
<b>622</b>	—	—	—		
<b>623</b>	—	—	—		

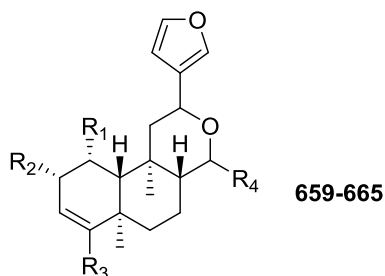


<b>624</b>	<i>ent</i> -(5 <i>R</i> ,9 <i>R</i> )-15,16-epoxy-10 <i>S</i> -hydroxycleroda-3,7,13(16),14-tetraene-17,12 <i>S</i> ,18,19-diolide	—	—	—	<i>Salvia haenkei</i>	<i>Tetrahedron</i> , 1997, <b>53</b> , 14719-14728
<b>625</b>	<i>ent</i> -(4 <i>S</i> ,5 <i>R</i> ,9 <i>S</i> ,10 <i>R</i> )-15,16-epoxycleroda-1,13(16),14-trien-17,12 <i>S</i> ;18,19-diolide	$\alpha$ H	$\alpha$ H	$\alpha$ H	<i>Salvia haenkei</i>	<i>Tetrahedron</i> , 1997, <b>53</b> , 14719-14728
<b>626</b>	infuscatin	$\beta$ OH	$\beta$ OH	$\alpha$ OH	<i>Salvia infuscata</i>	<i>Phytochem. Anal.</i> , 1994, <b>5</b> , 302-304
<b>627</b>	tehuanin E	OH	—	—	<i>Salvia</i>	<i>J. Nat. Prod.</i> , 2012,

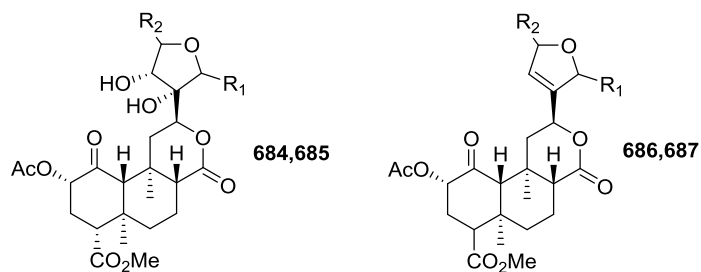
<b>628</b>	1 $\beta$ ,10 $\beta$ -epoxysalviarin	H	—	—	<i>herbacea</i>	<b>75</b> , 951-958
<b>629</b>	tehuanin F	OH	$\beta$ H	—		
<b>630</b>	tehuanin G	H	$\alpha$ OH	—		
<b>631</b>	tehuanin H	H	H	—		



<b>632</b>	1 $\alpha$ ,2 $\alpha$ -epoxy-3,4 $\alpha$ -dihydrolinearolactone	$\alpha$ H	<i>Salvia reptans</i>	<i>Phytochemistry</i> , 1991, <b>30</b> , 2335-2338
<b>633</b>	polystachyne D	$\beta$ H	<i>Salvia polystachya</i>	<i>Phytochemistry</i> , 2000, <b>53</b> , 103-109
<b>634</b>	polystachyne E	—		
<b>635</b>	tehuanin A	—	<i>Salvia herbacea</i>	<i>J. Nat. Prod.</i> , 2012, <b>75</b> , 951-958
<b>636</b>	tehuanin B	H		
<b>637</b>	tehuanin C	OH		

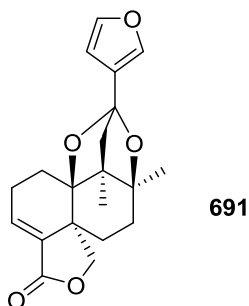


<b>659</b>	salvinorin C	OAc	OAc	CO <sub>2</sub> Me	=O	<i>Salvia divinorum</i>	<i>Org. Lett.</i> , 2001, <b>3</b> , 3935-3937
<b>660</b>	salvinorin D	OAc	OH	CO <sub>2</sub> Me	=O		<i>J. Nat. Prod.</i> , 2003, <b>66</b> , 703-705
<b>661</b>	salvinorin E	OH	OAc	CO <sub>2</sub> Me	=O		<i>J. Nat. Prod.</i> , 2006, <b>69</b> , 1782-1786
<b>662</b>	salvinorin F	OH	H	CO <sub>2</sub> Me	=O		<i>J. Nat. Prod.</i> , 2009, <b>72</b> , 1361-1363
<b>663</b>	salvinorin H	OH	OH	CO <sub>2</sub> Me	=O		
<b>664</b>	salvinorin I	OH	OH	CO <sub>2</sub> Me	$\beta$ OH		
<b>665</b>	salvinorin J	OH	OAc	CO <sub>2</sub> Me	$\alpha$ , $\beta$ -OH		

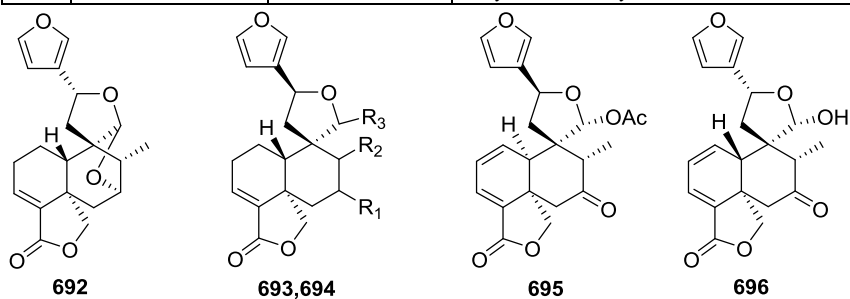


<b>684</b>	salvincin A	$\beta$ OMe	$\beta$ OMe	<i>Salvia divinorum</i>	<i>Org. Lett.</i> , 2005, <b>7</b> , 3017-3020
<b>685</b>	salvincin B	$\alpha$ OMe	$\alpha$ OMe		

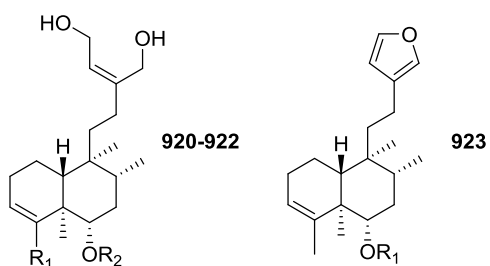
<b>686</b>	salvidivin A	=O	OH		<i>J. Nat. Prod.</i> , 2006, <b>69</b> , 1782-1786
<b>687</b>	salvidivin B	OH	=O		



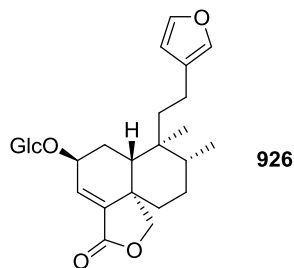
<b>691</b>	salvianduline D	<i>Salvia miniata</i>	<i>Phytochemistry</i> , 2011, <b>72</b> , 265-275		
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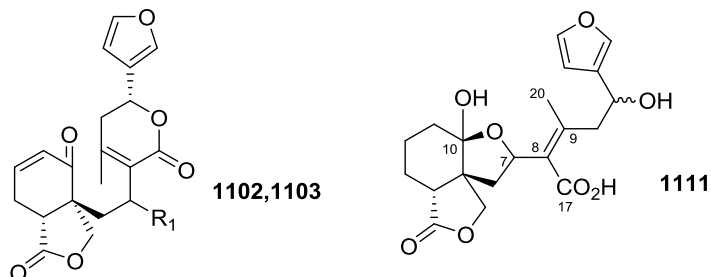
<b>692</b>	<i>trans</i> -1,2-dihydro-salvifarin	—	—	—	<i>Salvia fulgens</i>	<i>J. Nat. Med.</i> , 2006, <b>60</b> , 58-63
<b>693</b>	—	=O	$\beta$ Me	$\alpha$ OAc	<i>Salvia miniata</i>	<i>Phytochemistry</i> , 2011, <b>72</b> , 265-275
<b>694</b>	—	$\alpha$ OH	$\alpha$ Me	$\beta$ OAc		
<b>695</b>	salvifolin	—	—	—	<i>Salvia tiliaefolia</i>	<i>J. Org. Chem.</i> , 1990, <b>55</b> , 3522-3525
<b>696</b>	dugesin F	—	—	—	<i>Salvia dugesii</i>	<i>Nat. Prod. Bioprospect.</i> , 2011, <b>1</b> , 81-86



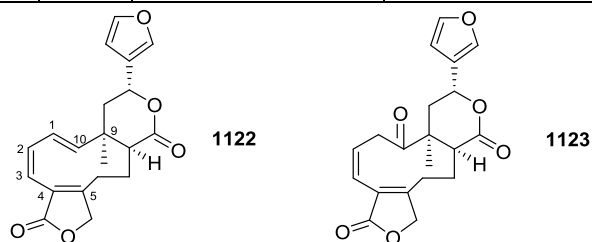
<b>920</b>	salvigreside A	Me	$\beta$ -D-Glc	<i>Salvia greggii</i>	<i>Phytochemistry</i> , 2004, <b>65</b> , 2577-2581
<b>921</b>	salvigreside B	Me	6- <i>O</i> -acetyl- $\beta$ -D-Glc		
<b>922</b>	salvigreside C	CH <sub>2</sub> OH	6- <i>O</i> -acetyl- $\beta$ -D-Glc		
<b>923</b>	salvigreside D	6- <i>O</i> -acetyl- $\beta$ -D-Glc	—		



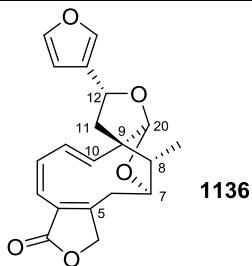
<b>926</b>	amarisolide	<i>Salvia amarissima</i>	<i>Phytochemistry</i> , 1996, <b>42</b> , 1105-1108
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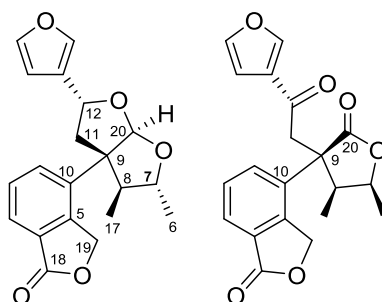
<b>1102</b>	salvianduline A	$\alpha$ OAc	<i>Salvia lavanduloides</i>	<i>Phytochemistry</i> , 1991, <b>30</b> , 3357-3360
<b>1103</b>	salvianduline B	$\beta$ OH		
<b>1111</b>	—	—	<i>Salvia miniata</i>	<i>Phytochemistry</i> , 2011, <b>72</b> , 265-275



<b>1122</b>	salvimicrophyllin A	<i>Salvia microphylla</i>	<i>J. Nat. Prod.</i> , 2014, <b>77</b> , 1088-1092
<b>1123</b>	salvimicrophyllin B		



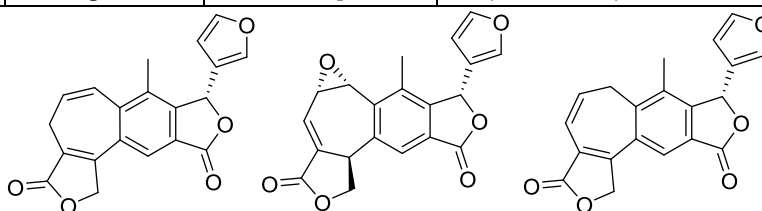
<b>1136</b>	tonalensin	<i>Salvia tonalensis</i>	<i>J. Chem. Crystallogr.</i> , 1996, <b>26</b> , 239-242
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1140

1141

<b>1140</b>	rhyacophiline	<i>Salvia rhyacophila</i>	<i>Tetrahedron</i> , 1991, <b>47</b> , 7199-7208
<b>1141</b>	salvireptanolide	<i>Salvia reptans</i>	<i>Phytochemistry</i> , 1991, <b>30</b> , 2335-2338

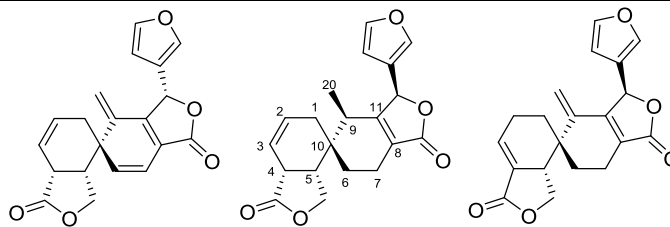


1161

1162

1163

<b>1161</b>	isosalvipuberulin	<i>Salvia leucantha</i>	<i>J. Nat. Med.</i> , 2006, <b>60</b> , 206-209
<b>1162</b>	salvileucantholide		<i>Tetrahedron</i> , 1994, <b>50</b> , 11593-11600
<b>1163</b>	dugesin B	<i>Salvia dugesii</i>	<i>Helv. Chim. Acta</i> , 2004, <b>87</b> , 949-955

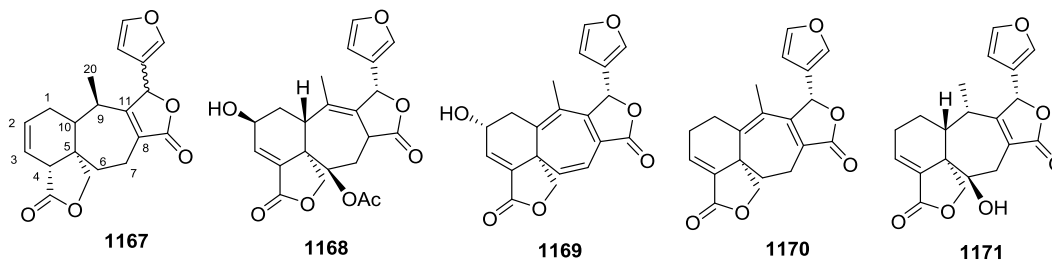


1164

1165

1166

<b>1164</b>	spiroleucantholide	<i>Salvia leucantha</i>	<i>J. Nat. Med.</i> , 2006, <b>60</b> , 206-209
<b>1165</b>	salvioccidentalin	<i>Salvia occidentalis</i>	<i>Molecules</i> , 2011, <b>16</b> , 9109-9115
<b>1166</b>	dugesin C	<i>Salvia dugesii</i>	<i>Nat. Prod. Bioprospect.</i> , 2011, <b>1</b> , 81-86



1167

1168

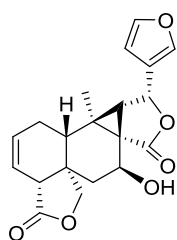
1169

1170

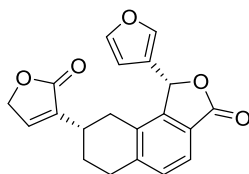
1171

<b>1167</b>	blepharolide B	<i>Salvia blepharophylla</i>	<i>Phytochemistry</i> , 1999, <b>52</b> , 1535-1540
<b>1168</b>	2 $\beta$ -hydroxysalvigenolide	<i>Salvia xalapensis</i>	<i>J. Nat. Prod.</i> , 2005, <b>68</b> , 787-790

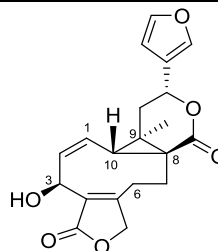
<b>1169</b>	salviandulin E	<i>Salvia leucantha</i>	<i>Tetrahedron</i> , 1994, <b>50</b> , 11593-11600
<b>1170</b>	dugesin A	<i>Salvia dugesii</i>	<i>Helv. Chim. Acta</i> , 2004, <b>87</b> , 949-955
<b>1171</b>	dugesin D		<i>Nat. Prod. Bioprospect.</i> , 2011, <b>1</b> , 81-86



**1172**

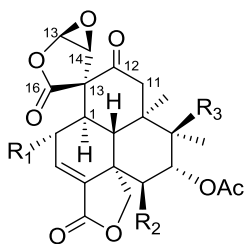


**1173**



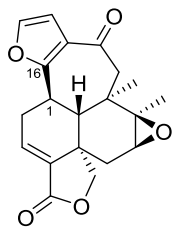
**1180**

<b>1172</b>	blepharolide A	<i>Salvia blepharophylla</i>	<i>Phytochemistry</i> , 1999, <b>52</b> , 1535-1540
<b>1173</b>	tilifodiolide	<i>Salvia dugesii</i>	<i>J. Org. Chem.</i> , 1990, <b>55</b> , 3522-3525
<b>1180</b>	microphyllandiolide	<i>Salvia microphylla</i>	<i>Org. Lett.</i> , 2013, <b>15</b> , 3210-3213

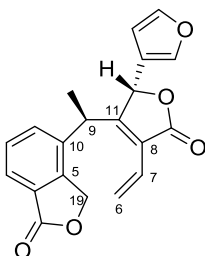


**1207-1210**

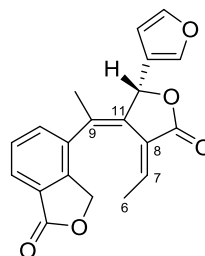
		R1	R2	R3		
<b>1207</b>	salvilanguiduline A	H	H	H	<i>Salvia languidula</i>	<i>Tetrahedron Lett.</i> , 1992, <b>33</b> , 581-584
<b>1208</b>	salvilanguiduline B	OH	H	H		
<b>1209</b>	salvilanguiduline C	H	OH	H		
<b>1210</b>	salvilanguiduline D	H	H	OH		



**1222**

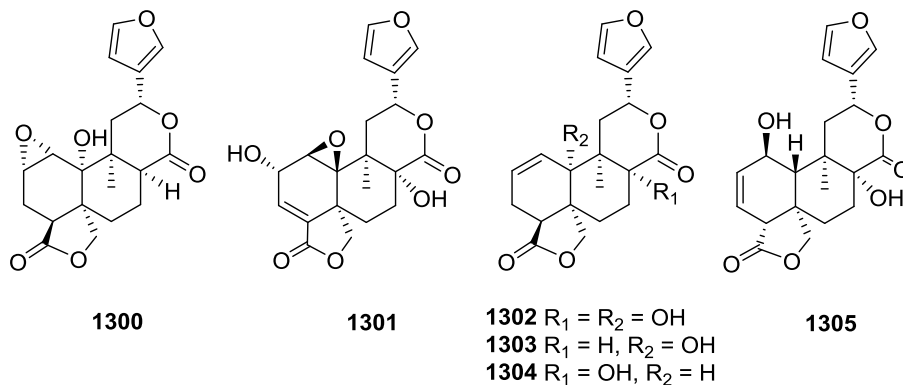


**1223**



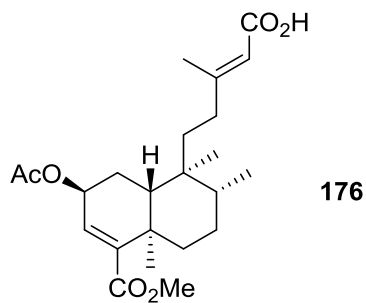
**1224**

<b>1222</b>	salvixalapoxide	<i>Salvia xalapensis</i>	<i>J. Nat. Prod.</i> , 2005, <b>68</b> , 787-790
<b>1223</b>	salvixalapadiene		
<b>1224</b>	isosalvixalapadiene		

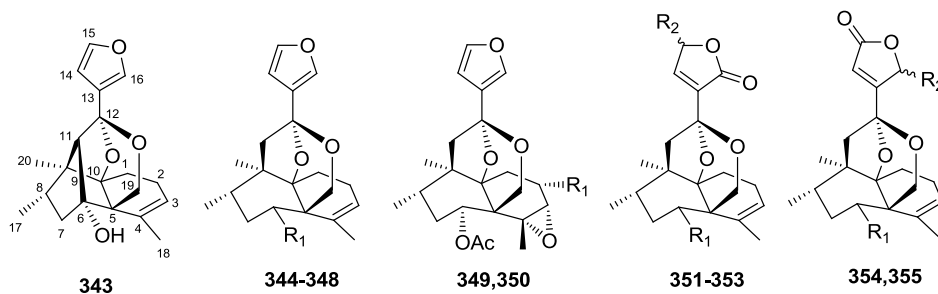


<b>1300</b>	seulpturin A	<i>Salvia shannoni</i>	<i>J. Nat. Prod.</i> , 2013, <b>76</b> , 1970-1975
<b>1301</b>	seulpturin B		
<b>1302</b>	seulpturin C		
<b>1303</b>	seulpturin D		
<b>1304</b>	seulpturin E		
<b>1305</b>	seulpturin F		

**SCAPANIA Genus**



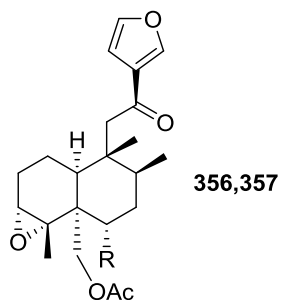
<b>176</b>	<i>2β</i> -acetoxy-19-carboxymethyl-cleroda-3,13-dien-15-oic acid	<i>Scapania bolandeli</i>	<i>Phytochemistry</i> , 1999, <b>52</b> , 1551-1553
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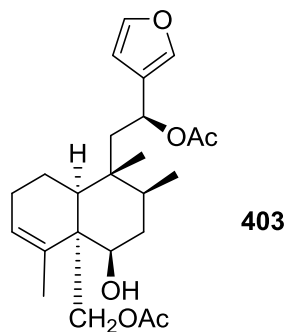
		R1	R2		
<b>343</b>	scaparvin A	—	—	<i>Scapania parva</i>	<i>Org. Lett.</i> , 2010, <b>12</b> , 4404-4407
<b>344</b>	scaparvin B	=O	—		



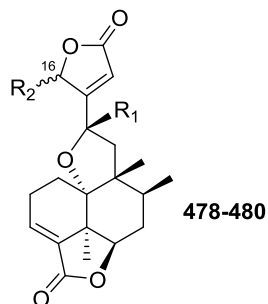
345	scaparvin C	$\alpha$ OH	—		
346	scaparvin D	$\alpha$ OAc	—		
347	parvitexin A	H	—		
348	parvitexin B	$\beta$ OAc	—	<i>Scapania parvitexta</i>	<i>Biosci. Biotechnol. Biochem.</i> , 2007, <b>71</b> , 2751-2758
349	parvitexin C	$\beta$ OH	—		
350	scaparvin E	OAc	—	<i>Scapania parva</i>	<i>Org. Lett.</i> , 2010, <b>12</b> , 4404-4407
351	stephanialide A	=O	OH	<i>Scapania stephanii</i>	<i>Phytochemistry</i> , 2014, <b>105</b> , 85-91
352	stephanialide B	$\beta$ OH	OH		
353	stephanialide C	$\beta$ OAc	OH		
354	stephanialide D	=O	OH		
355	stephanialide E	$\beta$ OAc	OH		



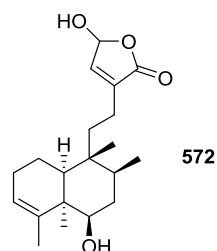
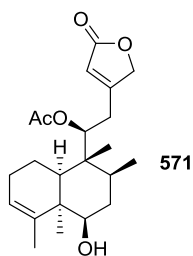
<b>356</b>	parvitexin D	OAc	<i>Scapania parvitexta</i>	<i>Biosci. Biotechnol. Biochem.</i> , 2007, <b>71</b> , 2751-2758
<b>357</b>	parvitexin E	OH		



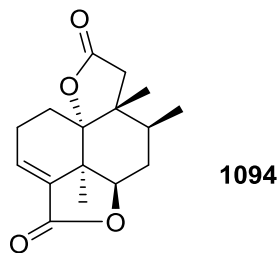
<b>403</b>	scaparvin F	<i>Scapania parva</i>	<i>Phytochem. Lett.</i> , 2012, <b>5</b> , 535-540
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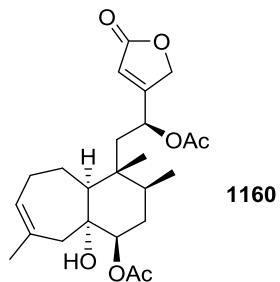
		R1	R2		
<b>478</b>	ciliatolide B	OEt	OH	<i>Scapania ciliata</i>	<i>Chem. Biodivers.</i> , 2013, <b>10</b> , 1606-1612
<b>479</b>	ciliatolide C	OMe	OH		
<b>480</b>	ciliatolide D	OEt	OEt		



<b>571</b>	scapanialide A	<i>Scapania parva</i>	<i>Phytochem. Lett.</i> , 2012, <b>5</b> , 535–540
<b>572</b>	scapanialide C		

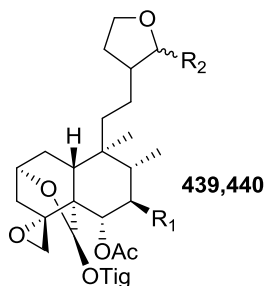


<b>1094</b>	ciliatolide A	<i>Scapania ciliata</i>	<i>Chem. Biodivers.</i> , 2013, <b>10</b> , 1606-1612
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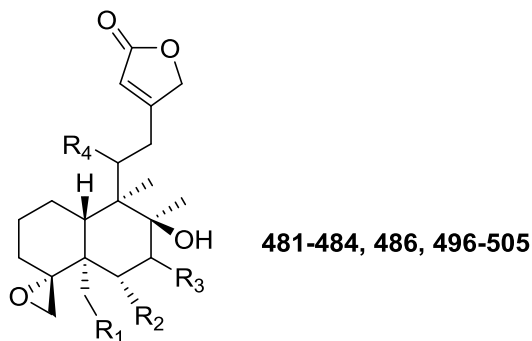


<b>1160</b>	scapanialide B	<i>Scapania parva</i>	<i>Phytochem. Lett.</i> , 2012, <b>5</b> , 535–540
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**SCUTELLARIA Genus**

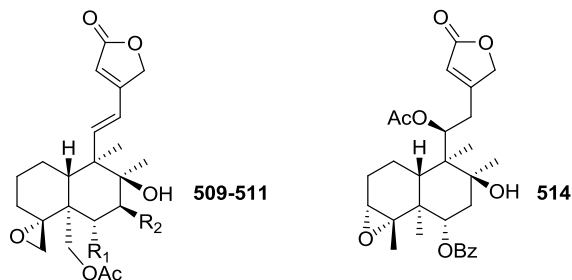


<b>439</b>	scutegalin B	OH	$\beta$ OH	<i>Scutellaria galericulata</i>	<i>Phytochemistry</i> , 1993, <b>33</b> , 309-315, <i>Phytochemistry</i> , 1996, <b>41</b> , 247-253
<b>440</b>	scutegalin C	OTig	OH		

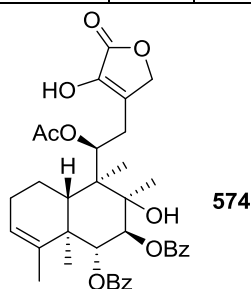


		R1	R2	R3	R4		
<b>481</b>	scutorientalin C	CH <sub>2</sub> OH	OiBu	H	$\beta$ OAc	<i>Scutellaria orientalis</i>	<i>Phytochemistry</i> , 1996, <b>43</b> , 173-178
<b>482</b>	scutalpin H	CH <sub>2</sub> OAc	Y <sub>1</sub>	H	$\beta$ OAc	<i>Scutellaria alpina</i>	<i>Phytochemistry</i> , 1995, <b>38</b> , 181-187
<b>483</b>	scutalpin I	CH <sub>2</sub> OAc	OBz	H	$\beta$ OAc		
<b>484</b>	scutalpin L	CH <sub>2</sub> OAc	OBz	$\beta$ OBz	H		
<b>486</b>	scutalpin N	CH <sub>2</sub> OAc	OBz	$\beta$ OBz	H	<i>Scutellaria alpina</i>	<i>Phytochemistry</i> , 1998, <b>49</b> , 2449-2452
<b>496</b>	(4 <i>S</i> ,11 <i>S</i> )-11-acetoxy-8 $\beta$ ,19-dihydroxy-6 $\alpha$ -tigloyloxy-4,18-epoxy- <i>neo</i> -clerod-13-en-15,16-olide	CH <sub>2</sub> OH	OTig	H	OAc	<i>Scutellaria alpina</i>	<i>Yakugaku Zasshi</i> , 1994, <b>114</b> , 264-271, <i>Phytochemistry</i> , 1993, <b>34</b> , 1589-1594
<b>497</b>	scutalpin C	CH <sub>2</sub> OAc	OTig	H	$\beta$ OH	<i>Scutellaria polyodon</i>	<i>J. Nat. Prod.</i> , 1997, <b>60</b> , 1229-1235
<b>498</b>	scupolin A	CH <sub>2</sub> OH	Y <sub>1</sub>	H	$\beta$ OAc		
<b>499</b>	scupolin B	CH <sub>2</sub> OAc	OAc	H	$\beta$ OAc		
<b>500</b>	scupolin C	CH <sub>2</sub> OBz	OBz	H	$\beta$ OAc		
<b>501</b>	scupolin D	CH <sub>2</sub> OH	OH	$\beta$ Y <sub>1</sub>	$\beta$ OAc		
<b>502</b>	scupolin E	CH <sub>2</sub> OH	Y <sub>1</sub>	$\beta$ OH	$\beta$ OAc		
<b>503</b>	scupolin F	CO <sub>2</sub> H	Y <sub>1</sub>	H	H		
<b>504</b>	scutorientalin E	CH <sub>2</sub> OAc	OCin	$\beta$ OAc	H	<i>Scutellaria orientalis</i>	<i>Phytochemistry</i> 1997, <b>46</b> , 587-589

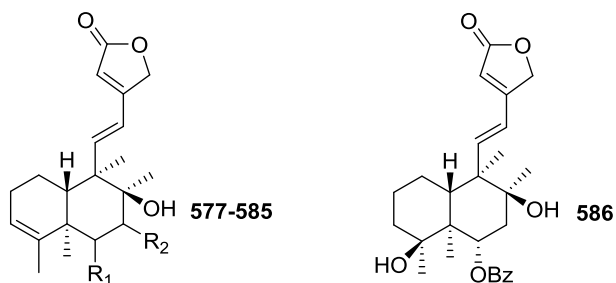
505	hastifolin A	Me	OCin	H	H	<i>Scutellaria hastifolia</i>	<i>Phytochemistry</i> , 2010, <b>71</b> , 2087-2091
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		R1	R2		
509	(4 <i>S</i> )-19-acetoxy-8 $\beta$ -hydroxy-6 $\alpha$ -tigloyloxy-4,18-epoxy- <i>neo</i> -cleroda-11,13-dien-15,16-olide	OTig	H	<i>Scutellaria alpina</i>	<i>Yakugaku Zasshi</i> , 1994, <b>114</b> , 264-271
510	scutalpin J	OBz	H		<i>Phytochemistry</i> , 1995, <b>38</b> , 181-187
511	scutalpin K	OBz	OBz		
514	scuterivulactone A	--	--	<i>Scutellaria rivularis</i>	<i>Chem. Pharm. Bull.</i> , 1997, <b>45</b> , 152-160

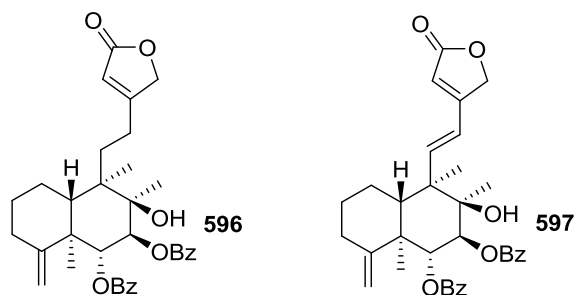


574	scutebata A	<i>Scutellaria barbata</i>	<i>J. Nat. Prod.</i> , 2010, <b>73</b> , 233-236
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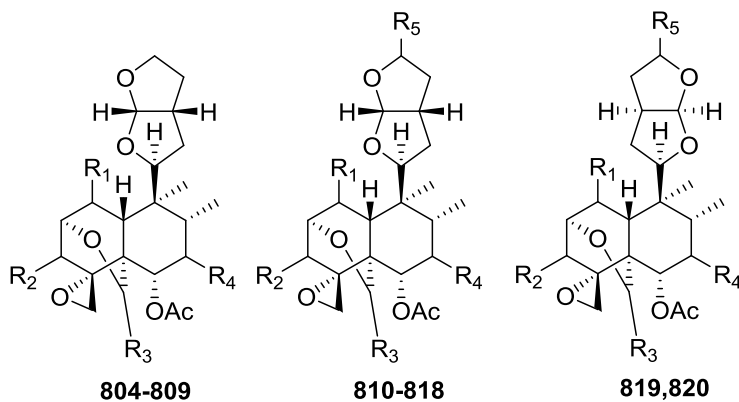


		R1	R2		
577	barbatin C	$\alpha$ OH	$\beta$ OH	<i>Scutellaria barbata</i>	<i>J. Integr. Plant Biol.</i> , 2008, <b>50</b> , 699-702, <i>Fitoterapia</i> , 2010, <b>81</b> , 737-741, <i>Planta Med.</i> , 2011, <b>77</b> , 1536-1541, <i>Phytochemistry</i> , 2006, <b>67</b> , 1326-1330, <i>Planta Med.</i> , 2007, <b>73</b> , 1217-1220,
578	barbatin D	$\alpha$ OBz	$\beta$ OBz		
579	barbatin E	Y <sub>4</sub>	M <sub>1</sub>		
580	scutebata I	$\alpha$ OAc	$\beta$ OH		
581	scutebata J	$\alpha$ OBz	$\beta$ OH		
582	scutebata K	$\alpha$ Y <sub>9</sub>	$\beta$ OH		
583	6,7-di- <i>O</i> -acetoxybarbatin A	$\alpha$ OAc	$\beta$ OAc		
584	6-(2,3-epoxy-2-isopropyl- <i>n</i> -propoxy)barbatin C	$\alpha$ M <sub>2</sub>	$\beta$ OH		

585	6-acetoxybarbatin C	$\alpha$ OAc	$\beta$ OH		<i>J. Asian Nat. Prod. Res.</i> , 2010, <b>12</b> , 859-864
586	scuterivulactone D	—	—	<i>Scutellaria rivularis</i>	<i>Chem. Pharm. Bull.</i> , 1997, <b>45</b> , 152-160

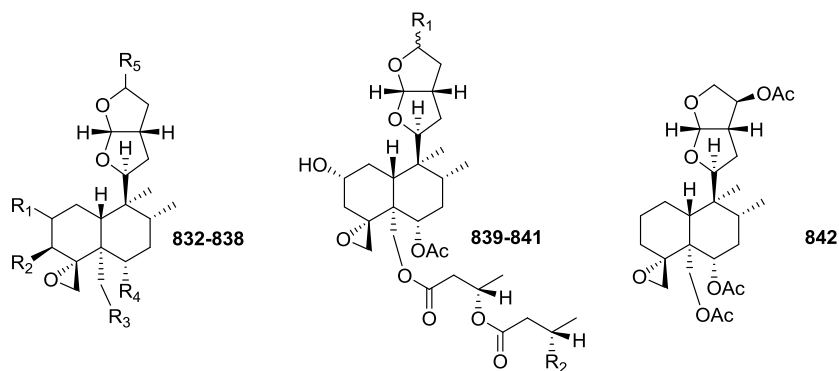


596	scutebaicalin	<i>Scutellaria baicalensis</i>	<i>Phytochemistry</i> , 1996, <b>43</b> , 835-837
597	scutebata L	<i>Scutellaria barbata</i>	<i>Planta Med.</i> , 2011, <b>77</b> , 1536-1541



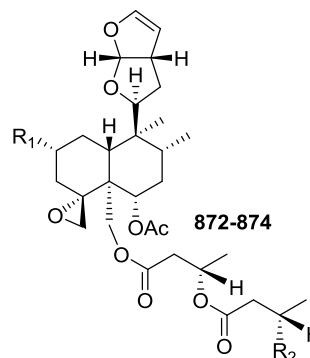
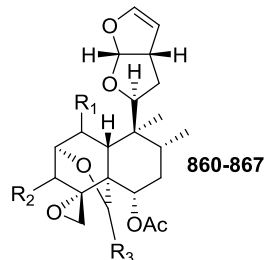
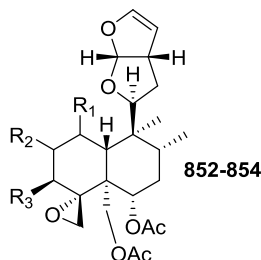
		R1	R2	R3	R4	R5		
805	14,15-dihydrojodrellin T	$\beta$ OTig	H	OAc	H	—	<i>Scutellaria galericulata</i>	<i>Phytochemistry</i> , 1990, <b>29</b> , 1793-1796
806	scutegalin A	H	H	OTig	OTig	—		<i>Phytochemistry</i> , 1993, <b>33</b> , 309-315
807	scutecyprin	H	H	$\beta$ OTig	H	—	<i>Scutellaria cypria</i> var. <i>elator</i>	<i>Phytochemistry</i> , 1993, <b>33</b> , 931-932
808	scutecolumnin B	H	H	$\beta$ Y <sub>1</sub>	H	—	<i>Scutellaria columnae</i>	<i>Phytochemistry</i> , 1992, <b>31</b> , 3639-3641
809	scutecolumnin C	H	H	$\beta$ OH	H	—		
810	scutecyprol B	H	H	$\beta$ OTig	H	OH	<i>Scutellaria cypria</i> var. <i>cypria</i>	<i>Phytochemistry</i> , 1996, <b>42</b> , 555-557
811	scupolin K	H	$\beta$ OH	OiBu	H	OH	<i>Scutellaria polyodon</i>	<i>J. Nat. Prod.</i> , 2000, <b>63</b> , 1032-1034
812	6 $\alpha$ -O-acetyl-15 $\beta$ ,19 $\beta$ -di-O-ethyl-2,19:4,18:11,16:15,16-	H	H	OEt	H	$\beta$ OEt	<i>Scutellaria discolor</i>	<i>Chem. Pharm. Bull.</i> , 1996, <b>44</b> ,

	tetraepoxyneoclerodane-6,15,19-triol							1540-1545
813	6 $\alpha$ -O-acetyl-15 $\alpha$ ,19 $\beta$ -di-O-ethyl-2,19:4,18:11,16:15,16-tetraepoxyneoclerodane-6,15,19-triol	H	H	OEt	H	$\alpha$ OEt		
814	6 $\alpha$ -O-acetyl-19 $\beta$ -O-ethyl-2,19:4,18:11,16:15,16-tetraepoxyneoclerodane-6,15,19-triol	H	H	OEt	H	OH		
815	6 $\alpha$ ,19-di-O-acetyl-2,19:4,18:11,16:15,16-tetraepoxyneoclerodane-6,15,19-triol	H	H	OAc	H	OH		
816	scutalbin B	H	H	$\beta$ Y1	H	OH	<i>Scutellaria albida</i>	<i>Phytochemistry</i> , 1996, <b>42</b> , 1059-1064
817	scutalbin C	H	H	$\beta$ OH	H	OH		
818	scutalsin	H	H	$\beta$ OiBu	H	OH	<i>Scutellaria altissima</i>	
819	11-episcutecepyrin	H	H	$\beta$ OTig	H	H	<i>Scutellaria columnae</i>	<i>Phytochemistry</i> , 1997, <b>46</b> , 955-958
820	11-epi-scutecolumnin C	H	H	$\beta$ OH	H	H	<i>Scutellaria columnae</i> var <i>columnae</i>	<i>Phytochemistry</i> , 1998, <b>49</b> , 811-815

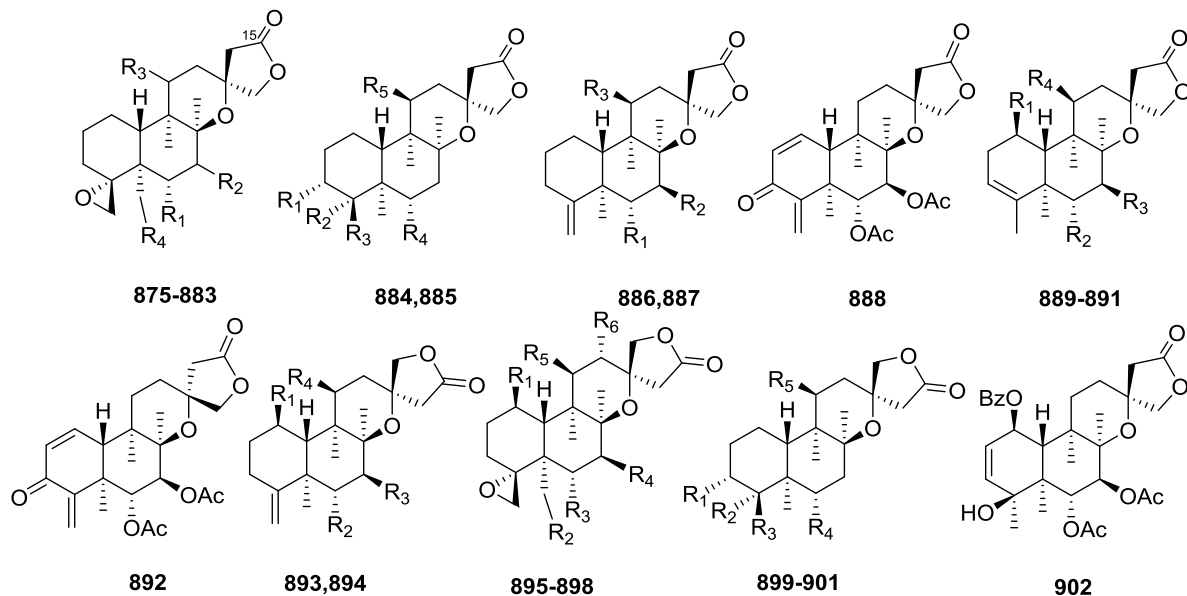


		R1	R2	R3	R4	R5		
832	15 $\beta$ -ethoxy-14-hydroclerodin	H	H	OAc	OAc	$\beta$ OEt	<i>Scutellaria discolor</i>	<i>Chem. Pharm. Bull.</i> , 1996, <b>44</b> , 1540-1545
833	15 $\alpha$ -ethoxy-14-hydroclerodin	H	H	OAc	OAc	$\alpha$ OEt		
834	14-hydro-15-hydroxy-6-O-deacetylclerodin	H	H	OAc	OH	OH		
835	scutelaterin C	Y1	H	OAc	OAc	OH	<i>Scutellaria lateriflora</i>	<i>Phytochemistry</i> , 1998, <b>48</b> , 687-691
836	scutellin A	H	H	OPr	OAc	$\beta$ OMe	<i>Scutellaria barbata</i>	<i>Yunnan Zhiwu Yanjiu</i> , 2009, <b>31</b> , 474-476
837	scutalpin O	H	H	OiBu	OAc	OH	<i>Scutellaria alpine</i>	<i>Phytochemistry</i> , 1998, <b>49</b> , 2449-2452
838	scutecepyrol A	H	H	OAc	OAc	OH	<i>Scutellaria cypria</i> var. <i>cypria</i>	<i>Phytochemistry</i> , 1996, <b>42</b> , 555-557
839	scupontin C	H	OAc	—	—	—	<i>Scutellaria</i>	<i>J. Nat. Prod.</i> , 1997, <b>60</b> ,

<b>840</b>	scupontin D	OH	OAc	—	—	—	<i>pontica</i>	348-355
<b>841</b>	scupontin F	OH	OX <sub>6</sub>	—	—	—		
<b>842</b>	scutalpin M	—	—	—	—	—	<i>Scutellaria alpina</i>	<i>Phytochemistry</i> , 1995, <b>38</b> , 181-187



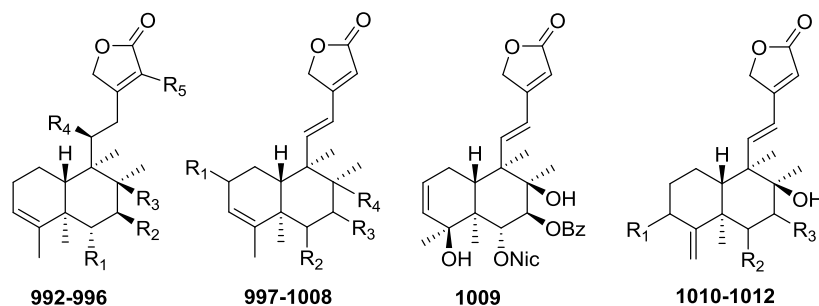
		R1	R2	R3		
<b>852</b>	galericulin	H	$\alpha$ OH	OTig	<i>Scutellaria galericulata</i>	<i>Phytochemistry</i> , 1990, <b>29</b> , 1793-1796
<b>853</b>	scutelaterin A	H	$\beta$ OAc	H	<i>Scutellaria lateriflora</i>	<i>Phytochemistry</i> , 1998, <b>48</b> , 687-691
<b>854</b>	scutelaterin B	H	$\beta$ Y <sub>1</sub>	H		
<b>860</b>	jodrellin A	H	H	$\beta$ OAc	<i>Scutellaria</i> spp.	<i>Phytochemistry</i> , 1991, <b>30</b> , 1125-1127
<b>861</b>	jodrellin B	H	H	$\beta$ OiPr		
<b>862</b>	scupolin J	H	$\beta$ OH	OiBu	<i>Scutellaria polyodon</i>	<i>J. Nat. Prod.</i> , 2000, <b>63</b> , 1032-1034
<b>863</b>	jodrellin T	$\beta$ OTig	H	$\beta$ OAc	<i>Scutellaria galericulata</i>	<i>Phytochemistry</i> , 1990, <b>29</b> , 1793-1796
<b>864</b>	19-O-deacetyl-jodrellin A	H	H	OH	<i>Scutellaria discolor</i>	<i>Chem. Pharm. Bull.</i> , 1996, <b>44</b> , 1540-1545
<b>865</b>	scutegrossin A	H	H	$\beta$ OTig	<i>Scutellaria grossa</i>	<i>Chem. Pharm. Bull.</i> , 1997, <b>45</b> , 1097-1100
<b>866</b>	scutalbin A	H	H	$\beta$ OH	<i>Scutellaria albida</i>	<i>Phytochemistry</i> , 1996, <b>42</b> , 1059-1064
<b>867</b>	scutecolumnin A	H	H	$\beta$ Y <sub>1</sub>	<i>Scutellaria columnae</i>	<i>Phytochemistry</i> , 1992, <b>31</b> , 3639-3641
<b>872</b>	scupontin A	OH	OAc	—	<i>Scutellaria pontica</i>	<i>J. Nat. Prod.</i> , 1997, <b>60</b> , 348-355
<b>873</b>	scupontin B	H	OAc	—		
<b>874</b>	scupontin E	OH	X <sub>6</sub>	—		



		R <sub>1</sub>	R <sub>2</sub>	R <sub>3</sub>	R <sub>4</sub>	R <sub>5</sub>	R <sub>6</sub>		
<b>875</b>	scutorientalin A	OiBu	H	H	OAc			<i>Scutellaria orientalis</i> subsp. <i>pinnatifida</i>	<i>Phytochemistry</i> , 1996, <b>43</b> , 173-178
<b>876</b>	scutorientalin C	OiBu	H	αOH	OAc				<i>Phytochemistry</i> , 1997, <b>44</b> , 121-124
<b>877</b>	scutorientalin D	OiBu	H	βOAc	OAc				<i>Phytochemistry</i> , 1993, <b>34</b> , 1589-1594
<b>878</b>	scutalpin D	OTig	H	βOAc	OAc			<i>Scutellaria alpina</i> subsp. <i>javalambrensis</i>	<i>Phytochemistry</i> , 1997, <b>44</b> , 593-597
<b>879</b>	11-deacetylscutalpin D	OTig	H	βOH	OAc				<i>Phytochemistry</i> , 1993, <b>34</b> , 453-456
<b>880</b>	scutalpin A	Y <sub>1</sub>	βOAc	H	OAc			<i>Scutellaria alpina</i>	<i>Phytochemistry</i> , 1994, <b>35</b> , 1285-1288
<b>881</b>	scutalpin F	OAc	βOAc	H	OAc				<i>Phytochemistry</i> , 1995, <b>38</b> , 181-187
<b>882</b>	scutalpin G	OBz	H	βOAc	OAc				<i>Phytochemistry</i> , 2010, <b>71</b> , 2087-2091.
<b>883</b>	hastifolin C	OCin	H	H	H			<i>Scutellaria hastifolia</i>	<i>Chem. Pharm. Bull.</i> , 1997, <b>45</b> , 152-160
<b>884</b>	scuterivulactone C <sub>2</sub>	OH	Me	OH	OBz	OAc		<i>Scutellaria hastifolia</i>	<i>Phytochemistry</i> , 2010, <b>71</b> , 2087-2091.
<b>885</b>	hastifolin E	H	OH	CH <sub>2</sub> OH	OCin	H			<i>Scutellaria barbata</i>
<b>886</b>	hastifolin G	OCin	H	H				<i>Helv. Chim. Acta.</i> , 2011, <b>94</b> , 643-649	
<b>887</b>	barbatin A	H	OBz	OH	OBz			<i>Phytochemistry</i> , 2006, <b>67</b> , 1326-1330	
<b>888</b>	barbatellarine E							<i>Helv. Chim. Acta.</i> , 2011, <b>94</b> , 643-649	
<b>889</b>	barbatin B	OBz	OBz	OH				<i>Phytochemistry</i> , 2006, <b>67</b> , 1326-	

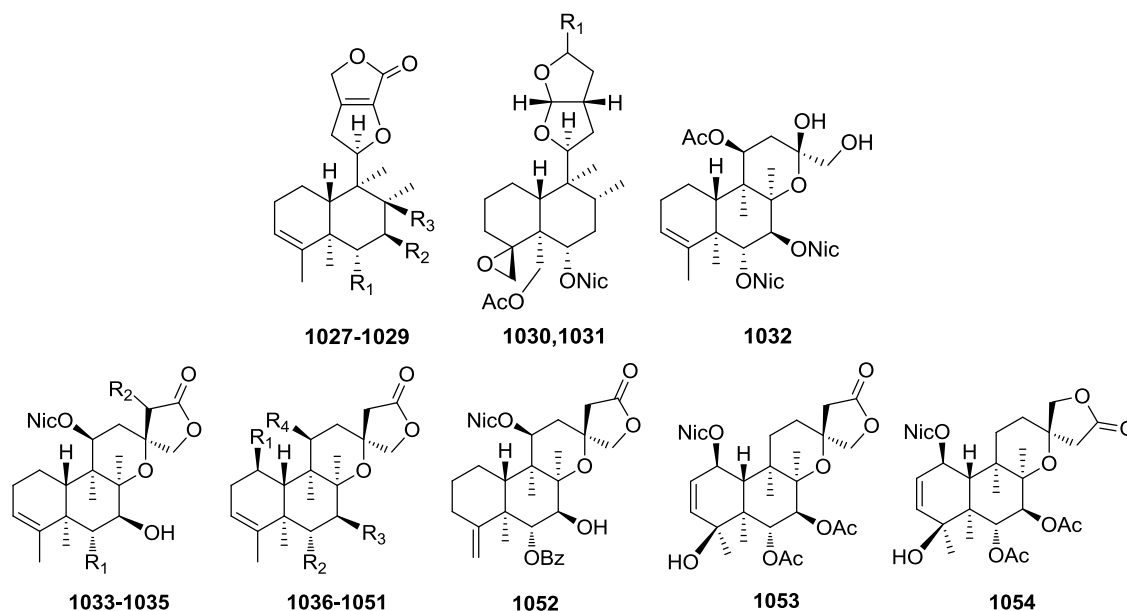


									1330
890	scutebata D	OBz	OAc	OAc	H				<i>J. Nat. Prod.</i> , 2010, <b>73</b> , 233-236
891	scutebata E	OiBu	OAc	OAc	H				<i>Chem. Nat. Cmpds.</i> , 2014, <b>50</b> , 256-257
892	barbatellarine F								<i>Phytochemistry</i> , 1998, <b>47</b> , 135-137
893	scuteselerin	OAc	OH	Y <sub>12</sub>	OAc			<i>Scutellaria seleriana</i>	<i>Phytochemistry</i> , 2010, <b>71</b> , 2087-2091
894	hastifolin F	H	OCin	H	H			<i>Scutellaria hastifolia</i>	<i>Phytochemistry</i> , 1998, <b>49</b> , 1825-1827
895	hastifolin B	H	H	OCin	H	H	H	<i>Scutellaria orientalis</i> subsp. <i>sintenisii</i>	<i>Phytochemistry</i> , 1994, <b>35</b> , 1285-1288
896	scutenisin	H	OH	OiBu	OiBu	H	H	<i>Scutellaria alpina</i>	<i>Heterocycles</i> , 1997, <b>45</b> , 2247-2252
897	scutalpin E	H	OAc	OTig	OAc	H	H	<i>Scutellaria guatemalensis</i>	<i>Phytochemistry</i> , 2010, <b>71</b> , 2087-2091
898	scuteguatemalin	OiBu	H	OAc	H	OAc	OiBu	<i>Scutellaria rivularis</i>	<i>Bioorg. Med. Chem. Lett.</i> , 2010, <b>20</b> , 288-290
899	hastifolin D	H	OH	CH <sub>2</sub> OH	OCin	H		<i>Scutellaria barbata</i>	
900	scuterivulactone C <sub>1</sub>	OH	Me	OH	OBz	OAc			
901	scuterivulactone B	=O	Me	H	OBz	OAc			
902	barbatellarine A								



		R1	R2	R3	R4	R5		
992	scutebarbatine Z	ONic	OH	H	H	H	<i>Scutellaria barbata</i>	<i>Chem. Pharm. Bull.</i> , 2010, <b>58</b> , 1267-1270
993	scutebarbatine X	ONic	ONic	OH	OAc	OH		<i>J. Nat. Prod.</i> , 2010, <b>73</b> , 233-236
994	scutebata B	ONic	OBz	OH	OAc	OH		<i>Bioorg. Med. Chem. Lett.</i> , 2010, <b>20</b> , 288-290
995	scutebata C	ONic	OH	OH	OAc	OH		<i>Chem. Pharm. Bull.</i> , 2010, <b>58</b> , 1267-1270
996	barbatellarine B	ONic	OBz	OH	OAc	H		<i>J. Nat. Prod.</i> , 2009,
997	scutebarbatine Y	H	αOBz	βONic	βOH	—		
998	scutehenanine A	H	αOH	βONic	βOH	—		

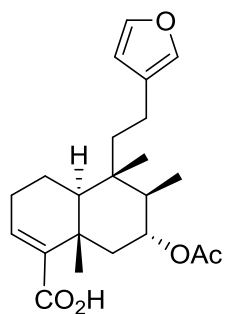
999	6-O-acetylscutehenanine A	H	$\alpha$ OAc	$\beta$ ONic	$\beta$ OH	—		72, 1793-1797	
1000	6-O-(2-carbonyl-3-methylbutanoyl)scutehenanine A	H	$\alpha$ OM <sub>1</sub>	$\beta$ ONic	$\beta$ OH	—			
1001	scutebarbatine B	H	$\alpha$ ONic	$\beta$ OBz	$\beta$ OH	—			<i>Phytochemistry</i> , 2006, <b>67</b> , 1326-1330
1002	scutelinquanine C	H	$\alpha$ ONic	$\beta$ Y <sub>8</sub>	$\beta$ OH	—			<i>Phytochem. Lett.</i> , 2010, <b>3</b> , 190-193
1003	scutebarbatine A	H	$\alpha$ ONic	$\beta$ ONic	$\beta$ OH	—			<i>Chin. Chem. Lett.</i> , 1996, <b>7</b> , 333-334
1004	scutebarbatine K	H	$\alpha$ ONic	$\beta$ OAc	$\beta$ OH	—			<i>Chem. Pharm. Bull.</i> , 2008, <b>56</b> , 207-209
1005	scutebarbatine L	H	$\alpha$ ONic	$\beta$ Y <sub>4</sub>	$\beta$ OH	—			
1006	2-carbonylscutebarbatine A	=O	$\alpha$ ONic	$\beta$ ONic	$\beta$ OH	—			<i>Planta Med.</i> , 2007, <b>73</b> , 1217-1220
1007	6-O-nicotinoylbarbatin A	H	$\alpha$ ONic	$\beta$ OH	$\beta$ OH	—			
1008	8-O-nicotinoylbarbatin A	H	$\alpha$ OH	$\beta$ OH	$\beta$ ONic	—			<i>Chem. Pharm. Bull.</i> , 2006, <b>54</b> , 869-872
1009	scutebarbatine C	—	—	—	—	—			
1010	scutebarbatine D	$\beta$ OH	$\alpha$ ONic	$\beta$ OBz	—	—			
1011	scutebarbatine E	=O	$\alpha$ ONic	$\beta$ OBz	—	—			
1012	scutebarbatine O	$\alpha$ OH	$\beta$ ONic	$\alpha$ ONic	—	—	<i>J. Asian Nat. Prod. Res.</i> , 2009, <b>11</b> , 451-456		



		R1	R2	R3	R4	R5		
1027	scutehenanine D	OBz	ONic	OH	—	—	<i>Scutellaria barbata</i>	<i>J. Nat. Prod.</i> , 2009, <b>72</b> , 1793-1797
1028	scutebarbatine H	ONic	OH	OH	—	—		<i>Chem. Pharm. Bull.</i> , 2007, <b>55</b> , 1218-1221
1029	7-O-nicotinoylscutebarbatine H	ONic	ONic	OH	—	—		<i>Chem. Pharm. Bull.</i> , 2008, <b>56</b> , 207-209
1030	scutebarbatine I	$\beta$ OEt	—	—	—	—		<i>Phytochem. Lett.</i> , 2010, <b>3</b> , 190-193
1031	scutebarbatine J	$\alpha$ OEt	—	—	—	—		
1032	scutelinquanine B	—	—	—	—	—		
1033	scutelinquanine A	OAc	H	—	—	—		

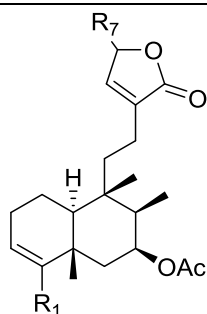
1034	scutehenanine H	OBz	OH	—	—	—	<i>Fitoterapia</i> , 2010, <b>81</b> , 737-741 <i>J. Asian Nat. Prod. Res.</i> , 2010, <b>12</b> , 859-864 <i>J. Nat. Prod.</i> , 2009, <b>72</b> , 1793-1797 <i>Chem. Pharm. Bull.</i> , 2006, <b>54</b> , 869-872  <i>Chem. Pharm. Bull.</i> , 2007, <b>55</b> , 1218-1221  <i>J. Asian Nat. Prod. Res.</i> , 2009, <b>11</b> , 451-456  <i>J. Nat. Prod.</i> , 2010, <b>73</b> , 233-236 <i>Chem. Pharm. Bull.</i> , 2010, <b>58</b> , 1267-1270  <i>Eur. J. Org. Chem.</i> , 2009, 5810-5815  <i>J. Nat. Prod.</i> , 2009, <b>72</b> , 1793-1797  <i>Helv. Chim. Acta.</i> , 2011, <b>94</b> , 643-649
1035	scutelinquanine D	OH	OH	—	—	—	
1036	scutehenanine B* → scutebarbatine W (1047)	H	OBz	OH	ONic		
1037	scutebarbatine F* → scutebata F (1045) = barbatine C (1048)	H	ONic	OAc	OAc		
1038	scutebarbatine G* → 1039	H	OH	OH	ONic		
1039	—	ONic	OH	OH	H		
1040	6,7-di-O-nicotinoylscutebarbatine G* → 1041	H	ONic	ONic	ONic		
1041		ONic	ONic	ONic	H		
1042	6-O-nicotinoyl-7-O-acetylscutebarbatine G* → barbatine D (1049)	H	ONic	OAc	ONic		
1043	6-O-nicotinoylscutebarbatine G* → 1044	H	ONic	OH	ONic		
1044		ONic	ONic	OH	H	—	
1045	scutebata F = barbatine C (1048)	ONic	OAc	OAc	H	—	
1046	scutebata G	OBz	ONic	OBz	H	—	
1047	scutebarbatine W	OBz	ONic	OH	H	—	
1048	barbatine C = scutebata F (1045)	ONic	OAc	OAc	H	—	
1049	barbatine D	ONic	ONic	OAc	H	—	
1050	barbatine A	H	ONic	OAc	ONic	—	
1051	barbatine B	H	ONic	ONic	ONic	—	
1052	scutehenanine C						
1053	barbatellarine C						
1054	barbatellarine D						

**SINDORA Genus**



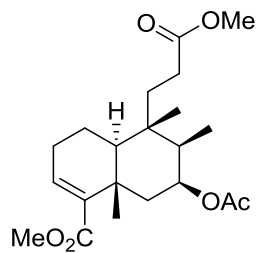
**402**

<b>402</b>	(+)-7β-acetoxy-15,16-epoxy-3,13(16),14-clerodatrien-18-oic acid	<i>Sindora sumatrana</i>	<i>Chem. Pharm. Bull.</i> , 1994, <b>42</b> , 1202-1207
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**568-570**

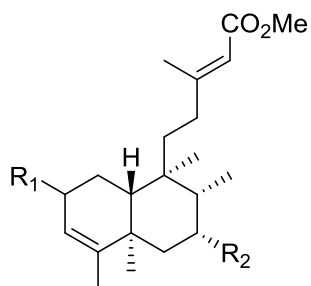
		R1	R7		
<b>568</b>	(+)-7β-acetoxy-18-oxo-3,13-clerodadien-16,15-olide	CHO	H	<i>Sindora sumatrana</i>	<i>Chem. Pharm. Bull.</i> , 1994, <b>42</b> , 1202-1207
<b>569</b>	(+)-7β-acetoxy-3,13-clerodadien-16,15-olid-18-oic acid	CO <sub>2</sub> H	H		
<b>570</b>	(+)-7β-acetoxy-16-hydroxy-3,13-clerodadien-16,15-olid-18-oic	CO <sub>2</sub> H	OH		



**1085**

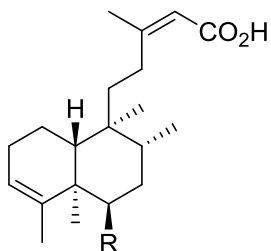
<b>1085</b>	(+)-7β-acetoxy-14,15,16-trinor-3-clerodene-13,18-dioate	<i>Sindora sumatrana</i>	<i>Chem. Pharm. Bull.</i> , 1994, <b>42</b> , 1202-1207
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**SOLIDAGO Genus**



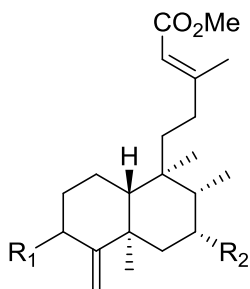
178 R<sub>1</sub> = =O, R<sub>2</sub> = OAc  
 179 R<sub>1</sub> = β-OH, R<sub>2</sub> = OAc  
 180 R<sub>1</sub> = α-OH, R<sub>2</sub> = H  
 179 R<sub>1</sub> = β-OH, R<sub>2</sub> = H

178	—	<i>Solidago altissima</i>	<i>Phytochemistry</i> , 1999, <b>52</b> , 487-493
179	—		
180	—		
181	—		



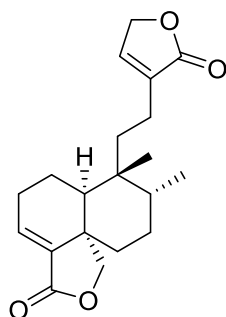
200 R = OTig  
 201 R = OAng

200	solidagocanin A	<i>Solidago canadensis</i>	<i>Helv. Chim. Acta</i> , 2012, <b>95</b> , 1121-1125
201	solidagocanin B		



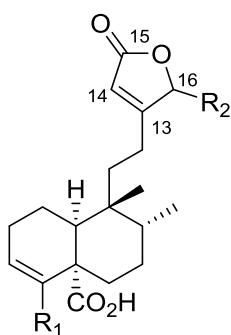
282 R<sub>1</sub> = α-OH, R<sub>2</sub> = OAc  
 283 R<sub>1</sub> = β-OH, R<sub>2</sub> = OAc  
 282 R<sub>1</sub> = =O, R<sub>2</sub> = H

282	—	<i>Solidago altissima</i>	<i>Phytochemistry</i> , 1999, <b>52</b> , 487-493
283	—		
284	—		

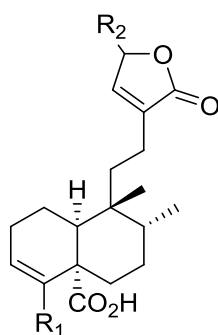


455

455	cleroda-3,13(14)-dien-16,15:18,19-dioidide	<i>Solidago virgaurea</i>	<i>Phytochemistry</i> , 2010, <b>71</b> , 104–109
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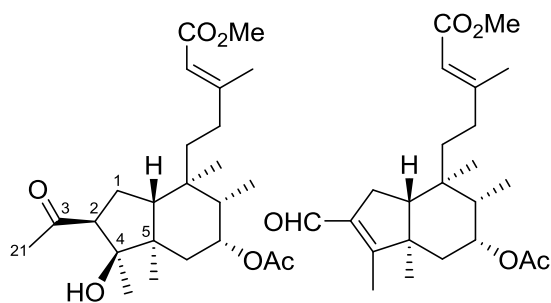


558-559



560-564

		R1	R2		
558	solidagoic acid H	Me	OH	<i>Solidago virgaurea</i>	<i>Phytochemistry</i> , 2010, <b>71</b> , 104–109
559	solidagoic acid I	CH <sub>2</sub> OAng	OH		
560	solidagoic acid C	Me	H		
561	solidagoic acid D	CH <sub>2</sub> OAng	H		
562	solidagoic acid E	Me	OH		
563	solidagoic acid F	CH <sub>2</sub> OAng	OH		
564	solidagoic acid G	Me	OMe		

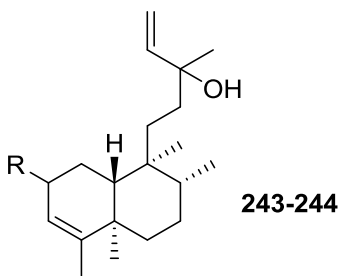


1146

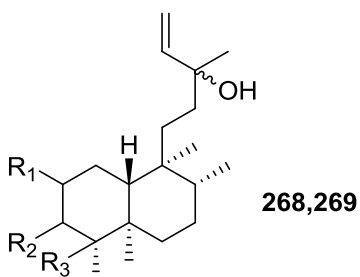
1147

1146	—	<i>Solidago altissima</i>	<i>Phytochemistry</i> , 1999, <b>52</b> , 487-493
1147	—		

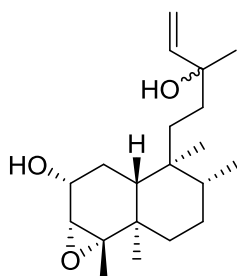
**STACHYS Genus**



<b>243</b>	roseostachenol	$\alpha$ OH	<i>Stachys rosea</i>	<i>Phytochemistry</i> , 1994, <b>37</b> , 501-503
<b>244</b>	roseostachenone	=O		<i>Phytochemistry</i> , 1992, <b>31</b> , 3147-3149

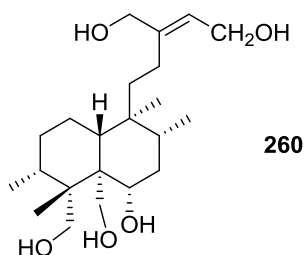


		R1	R2	R3		
<b>268</b>	roseotetrol	$\alpha$ OH	$\alpha$ OH	$\beta$ OH	<i>Stachys rosea</i>	<i>Phytochemistry</i> , 1994, <b>37</b> , 501-503
<b>269</b>	roseostachone	H	=O	H		<i>Phytochemistry</i> , 1992, <b>31</b> , 3147-3149

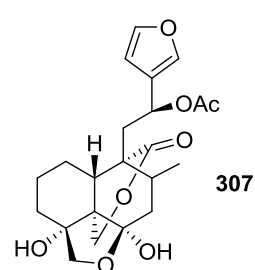
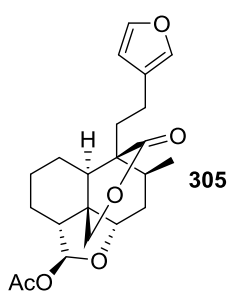
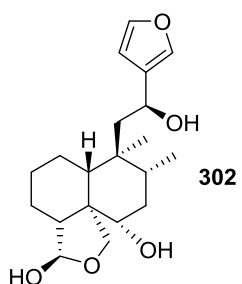


<b>294</b>	3 $\alpha$ ,4 $\alpha$ -epoxyroseostachenol	<i>Stachys glutinosa</i>	<i>J. Nat. Prod.</i> , 2015, <b>78</b> , 69-76
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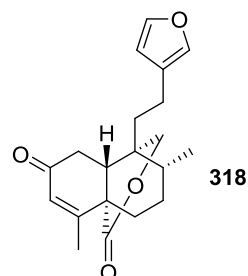
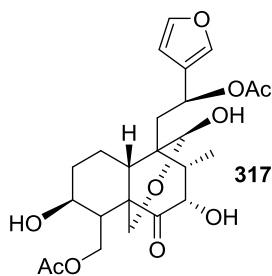
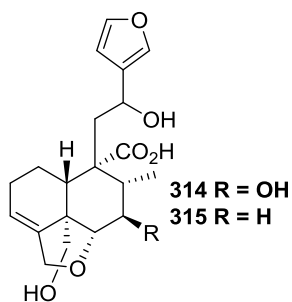
**TEUCRIUM Genus**



<b>260</b>	sypirensin B	<i>Teucrium chamaedrys</i> ssp. <i>sypirensis</i>	<i>J. Nat. Prod.</i> , 1996, <b>59</b> , 457-460
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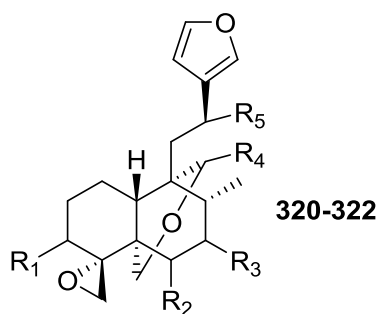


<b>302</b>	teumassilenin B	<i>Teucrium massiliense</i>	<i>J. Nat. Prod.</i> , 1998, <b>61</b> , 1242-1247
<b>305</b>	teuctomin	<i>Teucrium tomentosum</i>	<i>Nat. Prod. Res.</i> , 2010, <b>24</b> , 7-12
<b>307</b>	12-O-acetylteugnaphalodin	<i>Teucrium oxylepis</i>	<i>Phytochemistry</i> , 1991, <b>30</b> , 4079-4082

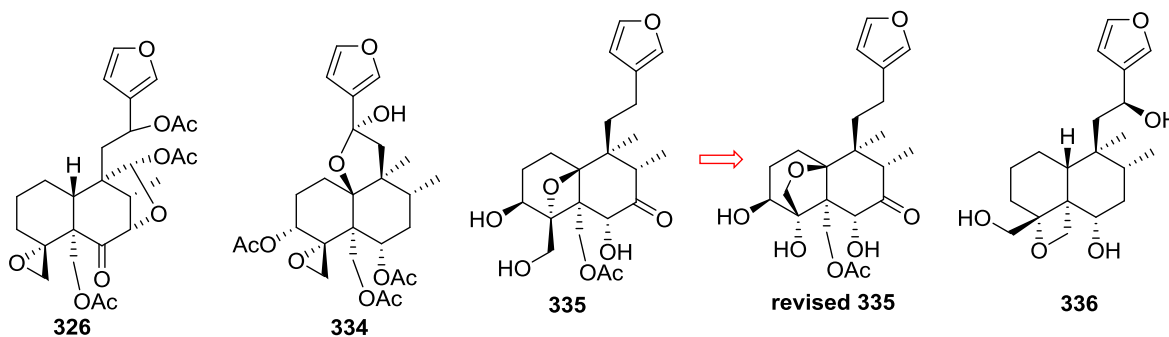


<b>314</b>	tepolin A	<i>Teucrium polium</i>	<i>Him. Prir. Soedin.</i> , 1992, <b>5</b> , 503-508
<b>315</b>	tepolin B		
<b>316</b>	difuranofruticol	<i>Teucrium fruticans</i>	<i>Phytochemistry</i> , 2005, <b>66</b> , 2298-2303
<b>317</b>	syrapolin II	<i>Teucrium polium</i>	<i>Jordan J. Chem.</i> , 2011, <b>6</b> , 339-345

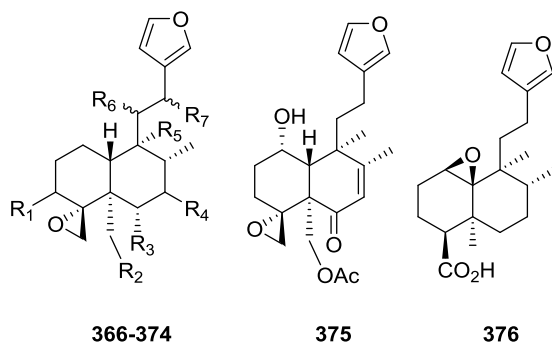




		R1	R2	R3	R4	R5		
<b>320</b>	6 $\beta$ -O-acetyl-3 $\beta$ -hydroxy-teucroylepin	$\beta$ OH	$\beta$ OAc	H	=O	OH	<i>Teucrium yemense</i>	<i>Phytochemistry</i> , 1995, <b>40</b> , 1737-1741
<b>321</b>	teucroylepin	H	$\beta$ OH	H	=O	$\beta$ OAc	<i>Teucrium oxylepis</i>	<i>Phytochemistry</i> , 1991, <b>30</b> , 4079-4082
<b>322</b>	montanin H	H	$\alpha$ OH	=O	$\alpha$ OH	OAc	<i>Teucrium montanum</i>	<i>Phytochemistry</i> , 1992, <b>31</b> , 4029-4030

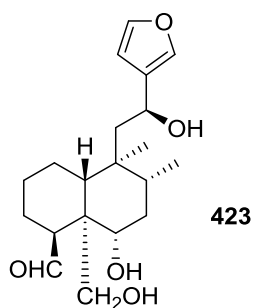


<b>326</b>	teucosin B	<i>Teucrium cossonii</i>	<i>Phytochemistry</i> , 1992, <b>31</b> , 3957-3960
<b>334</b>	teucrolin A	<i>Teucrium oliverianum</i>	<i>J. Nat. Prod.</i> , 1993, <b>56</b> , 830-842,
<b>335</b>	teucrolin E		<i>Phytochemistry</i> , 2002, <b>59</b> , 409-414
<b>336</b>	teumassilenin C	<i>Teucrium massiliense</i>	<i>J. Nat. Prod.</i> , 1998, <b>61</b> , 1242-1247

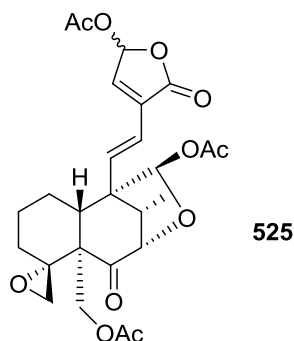


		R1	R2	R3	R4	R5	R6	R7		
<b>366</b>	teucosin A	H	OAc	OH	H	CH <sub>2</sub> OAc	H	OAc	<i>Teucrium cossonii</i>	<i>Phytochemistry</i> , 1992, <b>31</b> , 3957-3960

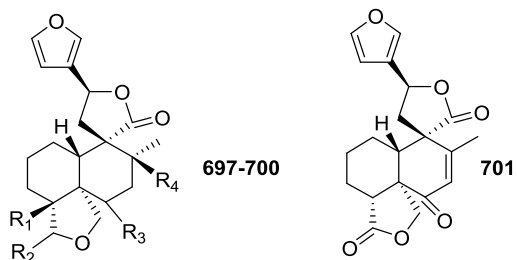
367	teugracilin E	$\beta$ OAc	OAc	OAc	H	CH <sub>2</sub> OAc	H	OAc	<i>Teucrium gracile</i>	<i>Phytochemistry</i> , 1992, <b>31</b> , 3531-3534
368	teugracilin C	$\beta$ OH	OAc	OH	H	Me	H	OAc		<i>Phytochemistry</i> , 1991, <b>30</b> , 3693-3697
369	teucrolivin D	$\beta$ OAc	OAc	OH	$\beta$ OAc	Me	H	H	<i>Teucrium oliverianum</i>	<i>Phytochemistry</i> , 1991, <b>30</b> , 1603-1606
370	teucrolivin E	$\beta$ OAc	OAc	OH	=O	Me	H	H		
371	7 $\beta$ -hydroxyfruticolone	H	OAc	=O	$\beta$ OH	Me	H	H	<i>Teucrium fruticans</i>	<i>Phytochemistry</i> , 2004, <b>65</b> , 387-392
372	11-hydroxyfruticolone	H	OAc	=O	H	Me	OH	H		
373	deacetylfruticolone	H	OH	=O	H	Me	H	H		
374	deoxyfruticolone	H	OAc	=O	H	Me	H	H		
375	didehydrofruticolone	—	—	—	—	—	—	—		<i>Phytochemistry</i> , 2005, <b>66</b> , 2298-2303



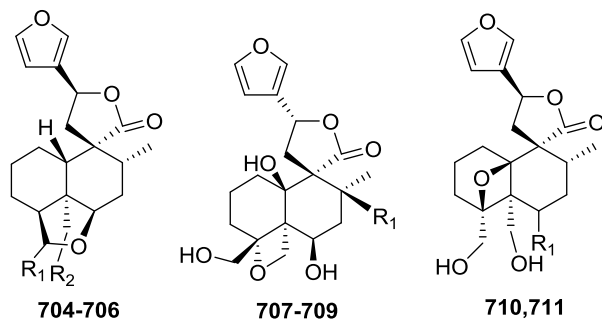
423	teumassilenin A	<i>Teucrium massiliense</i>	<i>J. Nat. Prod.</i> , 1998, <b>61</b> , 1242-1247
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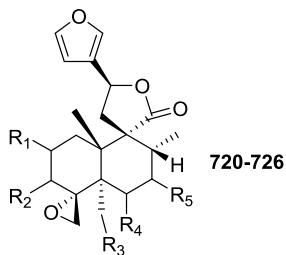
525	teucrasiolide	<i>Teucrium asiaticum</i>	<i>Phytochemistry</i> , 1997, <b>45</b> , 383-385
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		R1	R2	R3	R4		
697	teupolin XII	H	$\beta$ OMe	$\beta$ OH	H	<i>Teucrium polium</i>	<i>Phytochemistry</i> , 2011, <b>72</b> , 2037-2044
698	teucvisin A	OH	=O	$\alpha$ OH	H	<i>Teucrium viscidum</i>	<i>Chem. Pharm. Bull.</i> , 2014, <b>62</b> , 472-476
699	teuperninB	H	=O	=O	OH	<i>Teucrium perny</i>	<i>Phytochemistry</i> , 1991, <b>30</b> , 1963-1966
700	teuperninC	H	=O	$\beta$ OH	OH		
701	teupernin A	—	—	—	—		

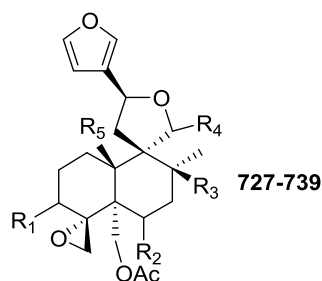


		R1	R2		
704	teupolin X	$\alpha$ OH	OH	<i>Teucrium polium</i>	<i>Phytochemistry</i> , 2011, <b>72</b> , 2037-2044
705	teupolin XI	$\alpha$ OMe	OH		
706	teucvisin B	=O	OAc	<i>Teucrium viscidum</i>	<i>Chem. Pharm. Bull.</i> , 2014, <b>62</b> , 472-476
707	12- <i>epi</i> -montanin D	H	—	<i>Teucrium maghrebinum</i>	<i>J. Nat. Prod.</i> , 2000, <b>63</b> , 1029-1031
708	teusandrin C	OH	—	<i>Teucrium sandrasicum</i>	<i>Phytochemistry</i> , 1997, <b>45</b> , 1653-1662
709	teusandrin D	H	—		
710	teusandrin E	=O	—		
711	teusandrin F	$\alpha$ OH	—		

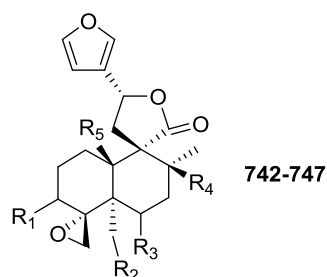
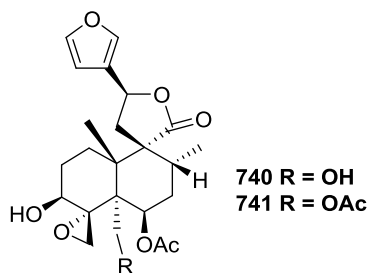


		R1	R2	R3	R4	R5		
720	teumassin	OH	H	OAc	=O	H	<i>Teucrium massiliense</i>	<i>Phytochemistry</i> , 1992, <b>31</b> , 4366-4367

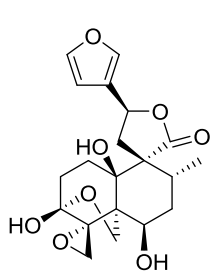
721	4 $\alpha$ ,18-epoxy-tafricanin A	H	=O	OAc	=O	H	<i>Teucrium pestalozzae</i>	<i>Phytochemistry</i> , 1990, <b>29</b> , 988-989
722	20-oxo-teuflavin	H	=O	OAc	$\beta$ OH	H		
723	teutridin	H	=O	OAc	=O	$\beta$ OH	<i>Teucrium trifidum</i>	<i>Phytochemistry</i> , 1994, <b>36</b> , 1549-1550
724	3-O-deacetylteugracilin A	H	$\beta$ OH	OAc	$\beta$ OH	H	<i>Teucrium gracile</i>	<i>Phytochemistry</i> , 1991, <b>30</b> , 3693-3697
725	teugracilin A	H	$\beta$ OAc	OAc	$\beta$ OH	H		
726	teugracilin B	H	$\beta$ OH	OAc	$\alpha$ OH	H		



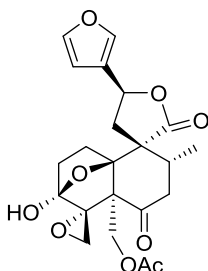
		R1	R2	R3	R4	R5		
727	teusandrin A	H	$\alpha$ OAc	OH	=O	OH	<i>Teucrium sandrasicum</i>	<i>Phytochemistry</i> , 1997, <b>45</b> , 1653-1662
728	teusandrin B	H	$\alpha$ OH	OH	=O	OH		
729	3-deacetylteumicropodine	$\beta$ OAc	$\alpha$ OH	H	=O	H	<i>Teucrium polium</i>	<i>Phytochemistry</i> , 1994, <b>37</b> , 1663-1666
730	3,20-bis-deacetylteupyreinidine	$\beta$ OH	$\alpha$ OAc	H	$\alpha$ OH	H		
731	6,20-bis-deacetylteupyreinidine	$\beta$ OAc	$\alpha$ OH	H	$\alpha$ OH	H		
732	3,6,20-tri-deacetyl-teupyreinidine	$\beta$ OH	$\alpha$ OH	H	$\alpha$ OH	H		
733	10-hydroxyteucjaponin B	H	$\beta$ OH	H	=O	OH	<i>Teucrium fruticans</i>	<i>Phytochemistry</i> , 2005, <b>66</b> , 2298-2303
734	6-acetyl-10-hydroxy-teucjaponin B	H	$\beta$ OAc	H	=O	OH		
735	6-acetylteucjaponin B	H	$\beta$ OAc	H	=O	H		
736	12- <i>epi</i> -teupyreinin	$\beta$ OAc	$\alpha$ OAc	H	=O	H	<i>Teucrium nudicaule</i>	<i>Nat. Prod. Res.</i> , 1996, <b>8</b> , 189-197
737	teubutilin B	H	$\alpha$ OAc	H	$\beta$ OAc	H	<i>Teucrium abutiloides</i>	<i>Phytochemistry</i> , 1990, <b>29</b> , 579-584
738	teucrasiatin	H	=O	H	$\alpha$ OH	H	<i>Teucrium asiaticum</i>	<i>Phytochemistry</i> , 1996, <b>43</b> , 435-438
739	teugracilin D	$\beta$ OH	$\alpha$ OH	H	$\alpha$ OAc	H	<i>Teucrium gracile</i>	<i>Phytochemistry</i> , 1992, <b>31</b> , 3531-3534



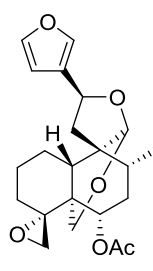
		R1	R2	R3	R4	R5		
740	teucrymin	--	--	--	--	--	<i>Teucrium yemense</i>	<i>Phytochemistry</i> , 1995, <b>40</b> , 1737-1741
741	19-O-acetylteucrymin	--	--	--	--	--		
742	teucryminone	$\beta$ OAc	OAc	=O	H	$\beta$ H		
743	12- <i>epi</i> -teucjaponin A	H	OAc	$\beta$ OH	H	$\beta$ H	<i>Teucrium maghrebinum</i>	<i>J. Nat. Prod.</i> , 2000, <b>63</b> , 1029-1031
744	sandrasin A	H	OAc	$\alpha$ OAc	OH	$\beta$ OH	<i>Teucrium sandrasicum</i>	<i>Phytochemistry</i> , 1996, <b>42</b> , 775-778
745	6-deacetylsandrasin A	H	OAc	$\alpha$ OH	OH	$\beta$ OH		
746	teubrevin C	$\beta$ OAc	OAc	=O	H	H	<i>Teucrium brevifolium</i>	<i>Tetrahedron</i> , 1995, <b>51</b> , 837-848
747	teubrevin D	$\beta$ OAc	OAc	=O	OH	OH		



748

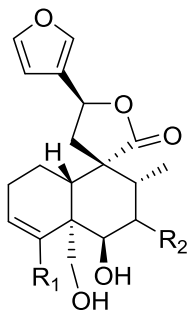


749

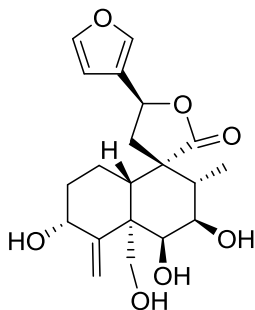


750

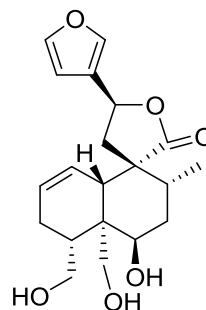
748	teupestalin A	<i>Teucrium pestalozzae</i>	<i>Phytochemistry</i> , 1990, <b>29</b> , 2229-2233
749	teupestalin B		
750	teubutilin A	<i>Teucrium abutiloides</i>	<i>Phytochemistry</i> , 1990, <b>29</b> , 579-584



776,777



778

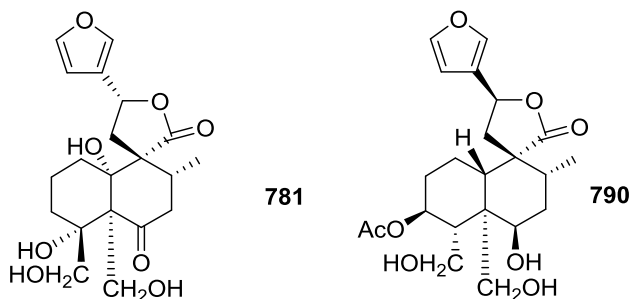


780

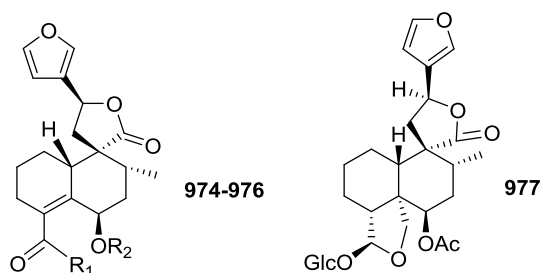
776 <sup>a</sup>	teupernin D	CO <sub>2</sub> Me	H	<i>Teucrium pernyi</i>	<i>Phytochemistry</i> , 1993, <b>33</b> , 716-717
777	teulolin A	CH <sub>2</sub> OH	$\beta$ OH	<i>Teucrium polium</i>	<i>Phytochemistry</i> , 1999, <b>51</b> , 921-925

778	teulolin B	—	—		
780	teupolin VI	—	—	<i>Teucrium polium</i>	<i>Phytochemistry</i> , 2011, <b>72</b> , 2037-2044

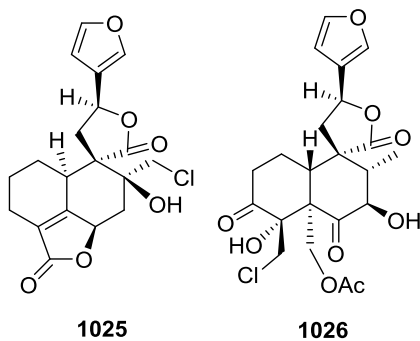
<sup>a</sup> Compound **1025** was also given the name 'teupermin D'.



781	sandrasin B	<i>Teucrium sandrasicum</i>	<i>Phytochemistry</i> , 1996, <b>42</b> , 775-778
790	teuctomentin	<i>Teucrium tomentosum</i>	<i>Der Pharmacia Lettre</i> , 2014, <b>6</b> , 295-298

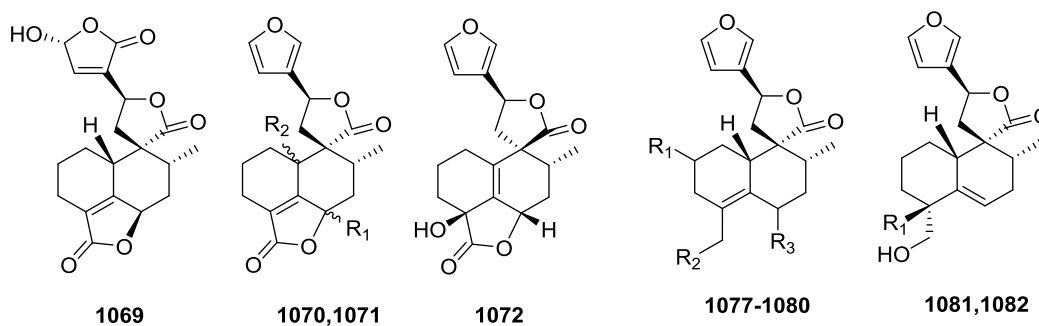


974	chamaedryoside A	OH	Glc	<i>Teucrium chamaedrys</i>	<i>Magn. Reson. Chem.</i> , 2009, <b>47</b> , 1007-1012
975	chamaedryoside B	O-6- $\alpha$ -Glc	H		
976	chamaedryoside C	O-6- $\beta$ -Glc	H		
977	teulamioside	—	—	<i>Teucrium lamifolium</i>	<i>Phytochemistry</i> , 1993, <b>34</b> , 1095-1098

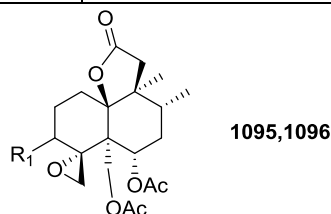


1025 <sup>a</sup>	teupermin D	<i>Teucrium pernyi</i>	<i>Chem. Pharm. Bull.</i> , 1992, <b>40</b> , 2193-2195
1026	teuracemin	<i>Teucrium racemosum</i>	<i>Phytochemistry</i> , 1995, <b>40</b> , 505-507

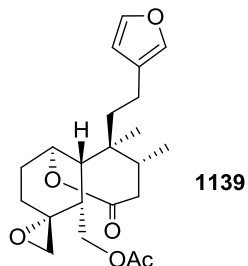
<sup>a</sup> Compound **776** was also given the name 'teupermin D'.



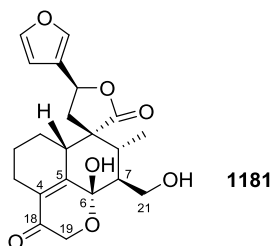
<b>1069</b>	teuponin	—	—	—	<i>Teucrium japonicum.</i>	<i>Phytochemistry</i> , 1991, <b>30</b> , 4175-4177
<b>1070</b>	teucvisin C	$\beta$ OH	$\beta$ H		<i>Teucrium viscidum</i>	<i>Chem. Pharm. Bull.</i> , 2014, <b>62</b> , 472-476
<b>1071</b>	teucvisin D	$\alpha$ H	$\alpha$ OH			
<b>1072</b>	teucvisin E	OH	—	—		
<b>1077</b>	teucorymbin	H	OAc	H	<i>Teucrium corymbosum</i>	<i>Phytochemistry</i> , 1995, <b>40</b> , 1481-1483
<b>1078</b>	sypirensin A	$\alpha$ OH	OH	$\alpha$ OH	<i>Teucrium chamaedrys</i> ssp. <i>sypirensis</i>	<i>J. Nat. Prod.</i> , 1996, <b>59</b> , 457-460
<b>1079</b>	teupolin IX	H	OH	$\beta$ OMe	<i>Teucrium polium</i>	<i>Phytochemistry</i> , 2011, <b>72</b> , 2037-2044
<b>1080</b>	12-epi-montanin B	H	OH	$\beta$ OH	<i>Teucrium maghrebinum</i>	<i>J. Nat. Prod.</i> , 2000, <b>63</b> , 1029-1031
<b>1081</b>	teupolin VIII	OH	—	—	<i>Teucrium polium</i>	<i>Phytochemistry</i> , 2011, <b>72</b> , 2037-2044
<b>1082</b>	teupolin VII	OMe	—	—		



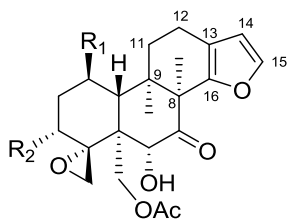
<b>1095</b>	teucrolin D	$\alpha$ OAc	<i>Teucrium oliverianum</i>	<i>J. Nat. Prod.</i> , 1993, <b>56</b> , 830-842
<b>1096</b>	teucrolivin F	=O		<i>Phytochemistry</i> , 1991, <b>30</b> , 1603-1606



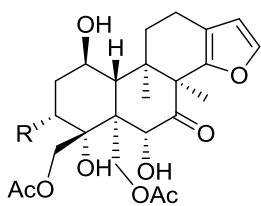
<b>1139</b>	fruticolide	<i>Teucrium fruticans</i>	<i>Phytochemistry</i> , 1992, <b>31</b> , 3531-3534
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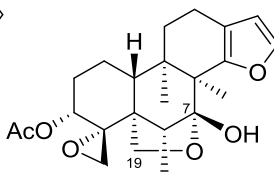
<b>1181</b>	teubetonin	<i>Teucrium betonicum</i>	<i>Tetrahedron</i> , 1995, <b>51</b> , 2363-2368
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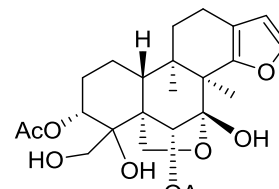
**1201,1202**



**1203,1204**

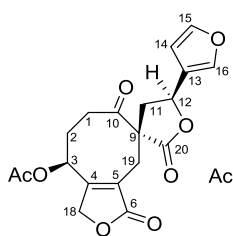


**1205**

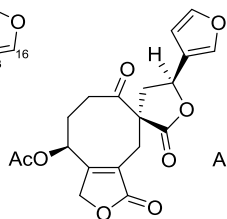


**1206**

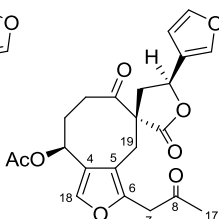
<b>1201</b>	alysine A	OH	OAc	<i>Teucrium alyssifolium</i>	<i>Tetrahedron</i> , 1995, <b>51</b> , 11793-11800
<b>1202</b>	alysine C	H	OH		
<b>1203</b>	alysine B	OAc	—		
<b>1204</b>	3-deacetylalysine B	OH	—		
<b>1205</b>	alysine D	—	—	<i>J. Nat. Prod.</i> , 1997, <b>60</b> , 1045-1047	
<b>1206</b>	alysine E	—	—		



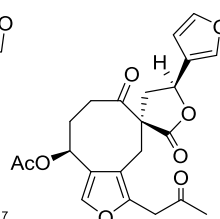
**1217**



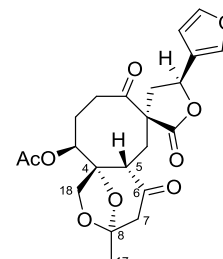
**1218**



**1219**



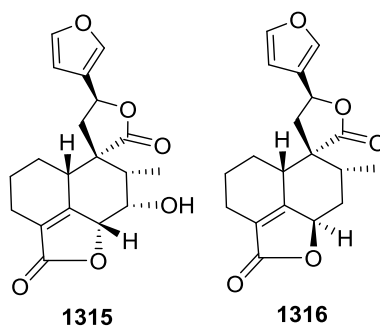
**1220**



**1221**

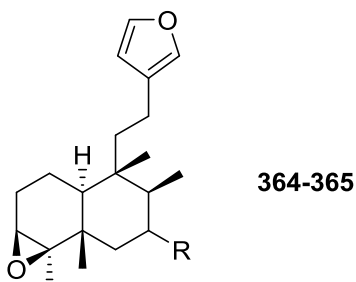
<b>1217</b>	teubrevin E	<i>Teucrium brevifolium</i>	<i>Tetrahedron</i> , 1995, <b>51</b> , 837-848
<b>1218</b>	teubrevin F		
<b>1219</b>	teubrevin G		
<b>1220</b>	teubrevin H		
<b>1221</b>	teubrevin I		





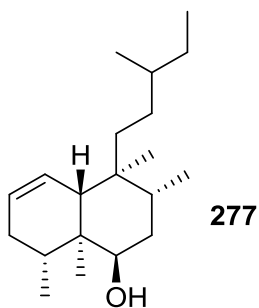
<b>1315</b>	teucrin A	<i>Teucrium chamaedrys</i>	<i>Basic Clin. Pharmacol. Toxicol.</i> , 2011, <b>109</b> , 521-526
<b>1316</b>	teuchamaedryn A		

**THYSANANTHUS Genus**

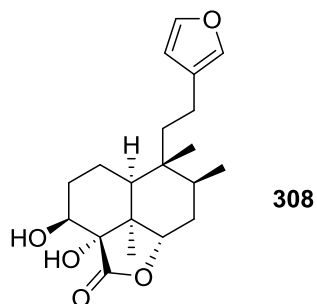


<b>364</b>	$3\beta,4\beta:15,16$ -diepoxy-13(16),14-clerodadiene	H	<i>Thysananthus spathulistipus</i>	<i>Chem. Pharm. Bull.</i> , 2006, <b>54</b> , 1046-1049
<b>365</b>	thysaspathone	=O		

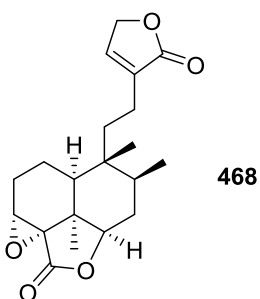
**TINOSPORA Genus**



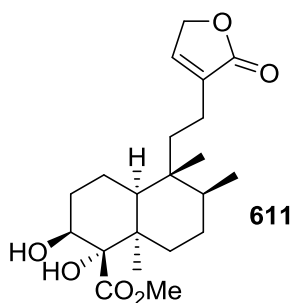
<b>277</b>	tinosporaclerodanol	<i>Tinospora cordifolia</i>	<i>Nat. Prod. Res.</i> , 2010, <b>24</b> , 926-934
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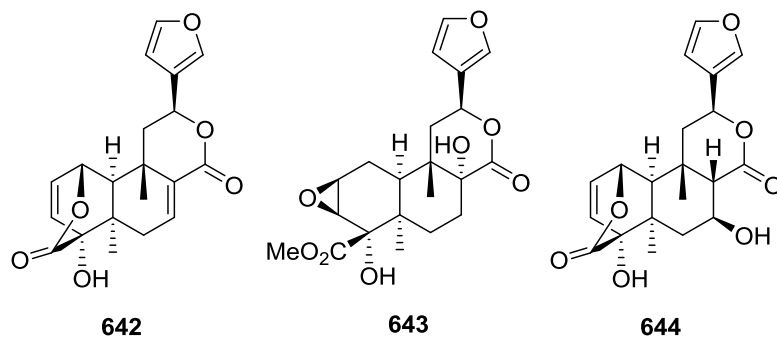
<b>308</b>	(2a $\beta$ ,3 $\alpha$ ,5a $\beta$ ,6 $\beta$ ,7R,8 $\alpha$ )-6-[2-(3-furanyl)ethyl]-2a,3,4,5,5a,6,7,8,8a,8b-decahydro-2a,3-dihydroxy-6,7,8b-trimethyl-2H-naphtho[1,8-bc]furan-2-one	<i>Tinospora rumphii</i>	<i>J. Nat. Prod.</i> , 2000, <b>63</b> , 509-511
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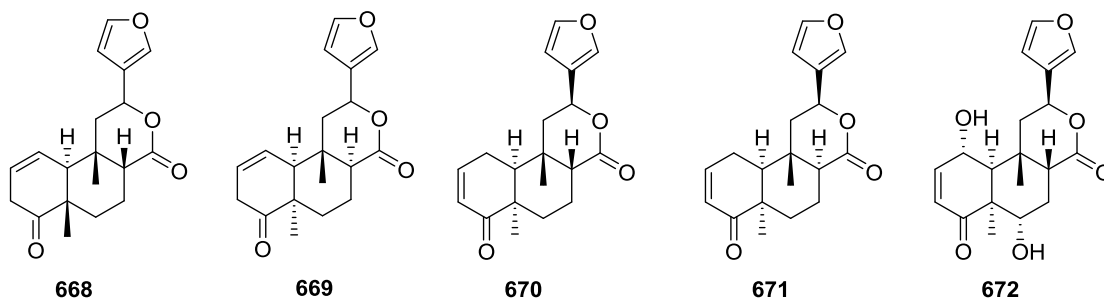
<b>468</b>	crispene E	<i>Tinospora crispa</i>	<i>Org. Biomol. Chem.</i> , 2015, <b>13</b> , 3882-3886
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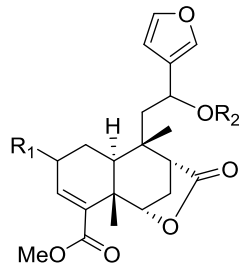
<b>611</b>	methyl(1 $\alpha$ ,4 $\alpha$ a,5 $\alpha$ ,6 $\beta$ ,8 $\alpha$ )-5-[2-(3-furan-3-ene-2-one)ethyl]-1,2,3,4,4a,5,6,7,8,8a-decahydro-1,2-dihydroxy-1-naphthalene carboxylate	<i>Tinospora rumphii</i>	<i>Org. Biomol. Chem.</i> , 2015, <b>13</b> , 3882-3886
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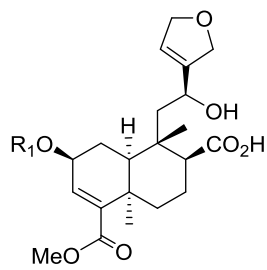
<b>642</b>	tinospin E	<i>Tinospora sagittata</i>	<i>Chem. Pharm. Bull.</i> , 2012, <b>60</b> , 1324-1328
<b>643</b>	tinosporin A		<i>Phytochem. Lett.</i> , 2015, <b>12</b> , 173-176
<b>644</b>	tinosporin B		



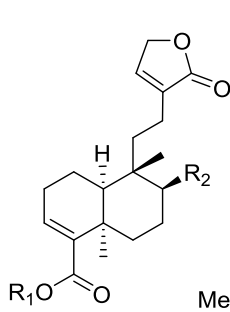
		R1	R2	R3	R4		
<b>668</b>	tinocallone A	$\beta$ Me	$\beta$ H	—	—	<i>Tinospora capillipes</i>	<i>Chin. Chem. Lett.</i> , 1992, <b>3</b> , 185-188
<b>669</b>	tinocallone B	$\alpha$ Me	$\alpha$ H	—	—		
<b>670</b>	tinocallone C	H	=O	H	$\beta$ H		
<b>671</b>	tinocallone D	H	=O	H	$\alpha$ H		
<b>672</b>	tincordin	OH	=O	OH	$\beta$ H	<i>Tinospora cordifolia</i>	<i>Nat. Prod. Res.</i> , 2013, <b>27</b> , 1431-1436



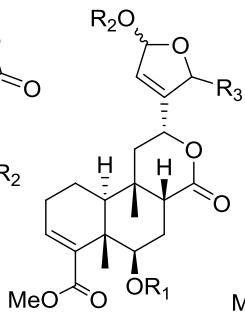
927-929



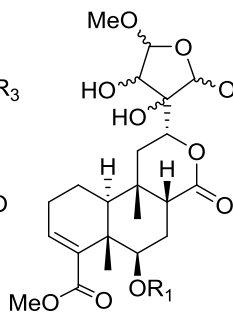
932



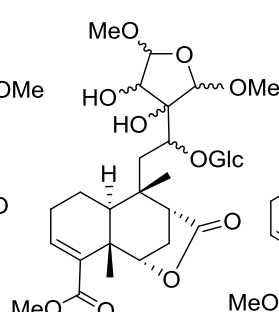
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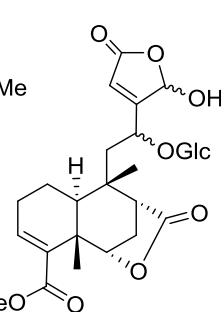
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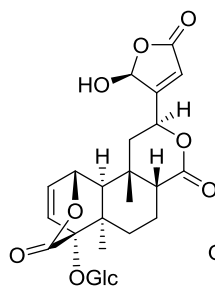
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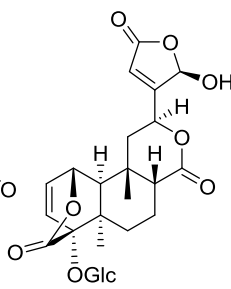
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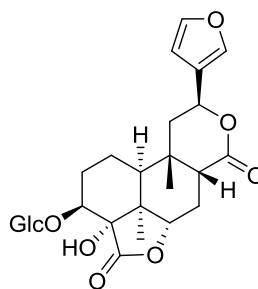
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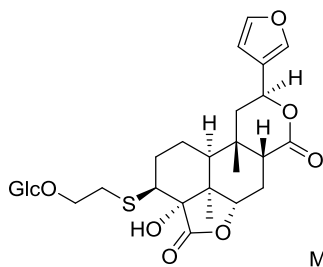
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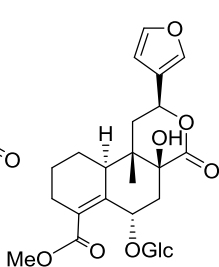
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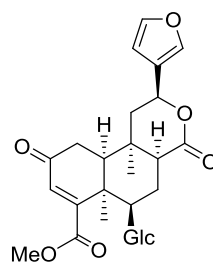
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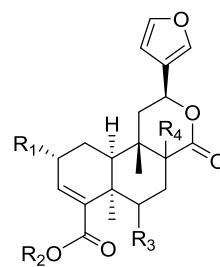
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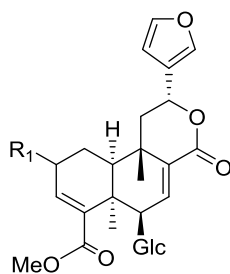
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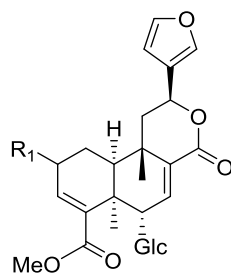
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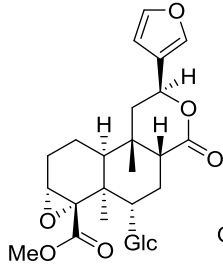
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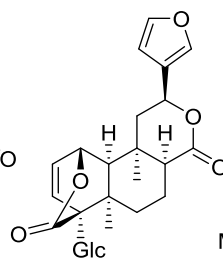
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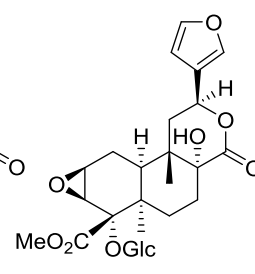
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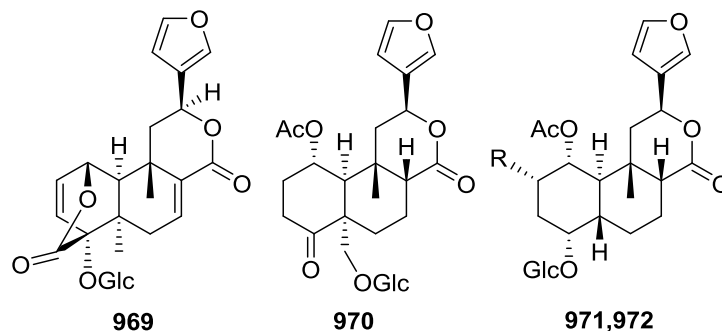
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967



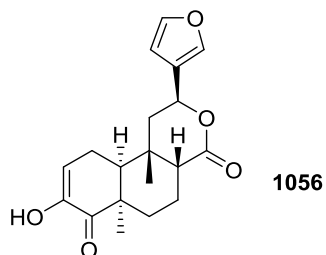
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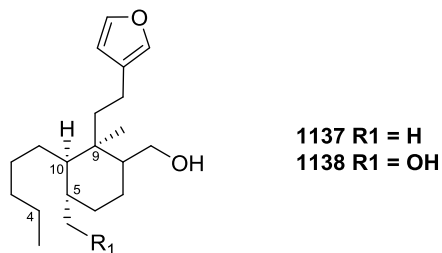
		R1	R2	R3	R4		
<b>927</b>	borapetoside D	H	Glc-(6→1)-Glc	—	—	<i>Tinospora tuberculata</i>	<i>Liebig's Ann. Chem.</i> , 1993, 491-495
<b>928</b>	borapetoside E	H	Glc	—	—		
<b>929</b>	rumphioside I	αOH	Glc	—	—	<i>Tinospora rumphii</i>	<i>Phytochemistry</i> , 1996, <b>42</b> , 153-158
<b>932</b>	sagittatayunnanoside B	Glc-(6→1)-Glc			—	<i>Tinospora sagittata</i> var. <i>yunnanensis</i>	<i>Planta Med.</i> , 2014, <b>80</b> , 419-425
<b>933</b>	sagittatayunnanoside A	OH	CH <sub>2</sub> OGlc				
<b>934</b>	sagittatayunnanoside C	OGlc	CH <sub>2</sub> OGlc				
<b>935</b>	sagittatayunnanoside D	OH	CO <sub>2</sub> Glc	—	—		
<b>936</b>	rumphioside A	β-D-Glc	H	=O	—	<i>Tinospora rumphii</i>	<i>Phytochemistry</i> , 1995, <b>40</b> , 1729-1736
<b>937</b>	rumphioside B	β-D-Glc	Me	=O	—		
<b>938</b>	rumphioside Ac-D	Glc(Ac) <sub>4</sub>	Me	OMe	—		
<b>939</b>	rumphioside C	β-D-Glc	—	—	—		
<b>940</b>	rumphioside C-1	β-D-Glc	—	—	—		
<b>941</b>	rumphioside E	—	—	—	—		
<b>942</b>	rumphioside F	—	—	—	—		
<b>943</b>	cordifolide B	—	—	—	—	<i>Tinospora cordifolia</i>	<i>Org. Lett.</i> , 2012, <b>14</b> , 2118-2121
<b>944</b>	cordifolide C	—	—	—	—		
<b>947</b>	borapetoside A	—	—	—	—	<i>Tinospora crispa</i>	<i>J. Nat. Prod.</i> , 2010, <b>73</b> , 541-547
<b>948</b>	cordifolide A	—	—	—	—	<i>Tinospora cordifolia</i>	<i>Org. Lett.</i> , 2012, <b>14</b> , 2118-2121
<b>949</b>	cordioside	—	—	—	—		<i>Phytochemistry</i> , 1995, <b>38</b> , 447-449
<b>950</b>	(5 <i>R</i> ,6 <i>R</i> ,8 <i>S</i> ,9 <i>R</i> ,10 <i>S</i> ,12 <i>S</i> )-15,16-epoxy-2-oxo-6- <i>O</i> -(β-D-glucopyranosyl)-cleroda-3,13(16),14-trien-17,12-olid-18-oic acid methyl ester	—	—	—	—	<i>Tinospora crispa</i>	<i>J. Nat. Prod.</i> , 2010, <b>73</b> , 541-547

951	(2 <i>R</i> ,5 <i>R</i> ,6 <i>R</i> ,8 <i>S</i> ,9 <i>S</i> ,10 <i>S</i> ,12 <i>S</i> )-15,16-epoxy-2-hydroxy-6- <i>O</i> -{β-D-glucopyranosyl-(1→6)-α-D-xylopyranosyl}-cleroda-3,13(16),14-trien-17,12-olid-18-oic acid methyl ester	αOH	Me	β- {β-D-Glc-(1→6)-α-D-Xyl}	αH		
952	(2 <i>R</i> ,5 <i>R</i> ,6 <i>R</i> ,8 <i>R</i> ,9 <i>S</i> ,10 <i>S</i> ,12 <i>S</i> )-15,16-epoxy-2-hydroxy-6- <i>O</i> -(β-D-glucopyranosyl)-cleroda-3,13(16),14-trien-17,12-olid-18-oic acid methyl ester	αOH	Me	β-(β-D-Glc)	βH		
953	(5 <i>R</i> ,6 <i>R</i> ,8 <i>S</i> ,9 <i>R</i> ,10 <i>R</i> ,12 <i>S</i> )-15,16-epoxy-2-oxo-6- <i>O</i> -(β-D-glucopyranosyl)-cleroda-3,13(16),14-trien-17,12-olid-18-oic acid methyl ester	=O	Me	β-(β-D-Glc)	αH		
954	epi-tinophylloside	OGlc	Me	H	αH	<i>Tinospora capillipes</i>	<i>Chin. Chem. Lett.</i> , 1992, <b>3</b> , 185-188
955	tinospinoside A	OGlc	Me	H	βH	<i>Tinospora sagittata</i>	<i>Planta Med.</i> , 2012, <b>78</b> , 82-85
956	tinospinoside B	OGlc	Me	H	βOH		
957	tinospinoside C	OGlc	Me	H	αOH		
960	borapetoside C	H	Me	Glc	H	<i>Tinospora tuberculata</i>	<i>Liebigs Ann. Chem.</i> , 1993, 491-495
961	borapetoside G	=O	Me	Glc	H		
962	borapetoside F	H	—	—	—		
963	tinoscorside C	αOH	—	—	—	<i>Tinospora cordifolia</i>	<i>Fitoterapia</i> , 2010, <b>81</b> , 485-489
964	(2 <i>R</i> ,5 <i>R</i> ,6 <i>S</i> ,9 <i>S</i> ,10 <i>S</i> ,12 <i>S</i> )-15,16-epoxy-2-hydroxy-6- <i>O</i> -(β-D-glucopyranosyl)-cleroda-3,7,13(16),14-tetraen-17,12-olid-18-oic acid methyl ester	αOH	—	—	—	<i>Tinospora crispa</i>	<i>J. Nat. Prod.</i> , 2010, <b>73</b> , 541-547
965	(5 <i>R</i> ,6 <i>S</i> ,9 <i>S</i> ,10 <i>S</i> ,12 <i>S</i> )-15,16-epoxy-2-oxo-6- <i>O</i> -(β-D-glucopyranosyl)-cleroda-3,7,13(16),14-tetraen-17,12-olid-18-oic acid methyl ester	=O	—	—	—		
966	(3 <i>R</i> ,4 <i>R</i> ,5 <i>R</i> ,6 <i>S</i> ,8 <i>R</i> ,9 <i>S</i> ,10 <i>S</i> ,12 <i>S</i> )-15,16-epoxy-3,4-epoxy-6- <i>O</i> -(β-D-glucopyranosyl)-cleroda-3,13(16),14-trien-17,12-olid-18-oic acid methyl ester	—	—	—	—		
967	(1 <i>R</i> ,4 <i>S</i> ,5 <i>R</i> ,8 <i>S</i> ,9 <i>R</i> ,10 <i>S</i> ,12 <i>S</i> )-15,16- epoxy-4- <i>O</i> -(β-D-glucopyranosyl)-cleroda-2,13(16),14-triene-17(12),18(1)-diolide	—	—	—	—		

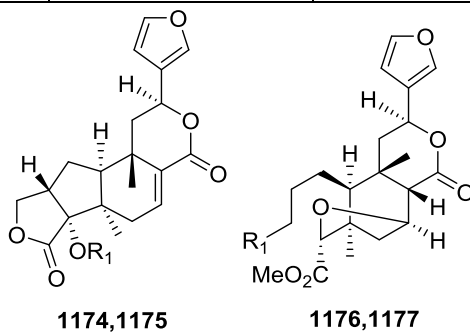
968	tinospinoside D	—	—	—	—	<i>Tinospora sagittata</i>	<i>Chem. Pharm. Bull.</i> , 2012, <b>60</b> , 1324-1328
969	tinospinoside E	—	—	—	—		
970	tinospinosinenside A	—	—	—	—	<i>Tinospora sinensis</i>	<i>J. Nat. Prod.</i> , 2007, <b>70</b> , 1971-1976
971	tinospinosinenside B	OAc	—	—	—		
972	tinospinosinenside C	OH	—	—	—		



<b>1056</b>	sagitone	<i>Tinosporasagittata</i> var. <i>yunnanensi</i>	<i>Molecules</i> , 2010, <b>15</b> , 8360-8365
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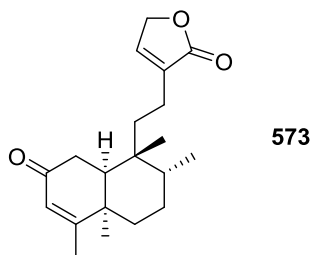


<b>1137</b>	tinosporafuranol	<i>Tinospora cordifolias</i>	<i>Nat. Prod. Res.</i> , 2010, <b>24</b> , 926-9354
<b>1138</b>	tinosporafurandiol		

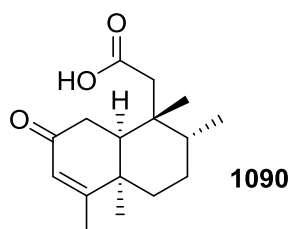


<b>1174</b>	baenzigeride A	H	<i>Tinospora baenzigeri</i>	<i>Phytochemistry</i> , 1999, <b>52</b> , 1335-1340
<b>1175</b>	baenzigeroside A	Glc		
<b>1176</b>	baenzigeride B	H		<i>Chem. Pharm. Bull.</i> , 2001, <b>49</b> , 854-857
<b>1177</b>	baenzigeroside B	Glc		

**VELLOZIA Genus**

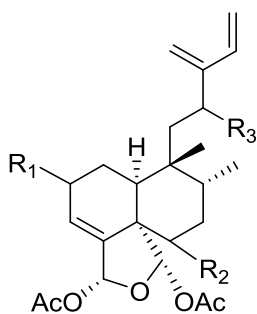


573	2-oxo-5 $\alpha$ ,8 $\alpha$ -cleroda-3,13-dien-16,15-olide	<i>Vellozia bicolor</i>	<i>Phytochemistry</i> , 1994, <b>37</b> , 1115-1117
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1090	2-oxo-5 $\alpha$ ,8 $\beta$ -13,14,15,16-tetranorclerod-3-en-12-oic acid	<i>Vellozia bicolor</i>	<i>Phytochemistry</i> , 1994, <b>37</b> , 1115-1117
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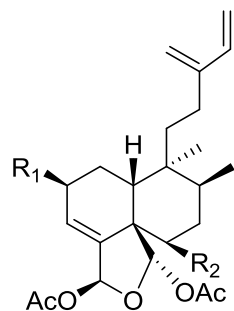
**ZUELANIA Genus**



- 17** R<sub>1</sub> =  $\alpha$ -OH, R<sub>2</sub> =  $\alpha$ -OCin, R<sub>3</sub> = H  
**18** R<sub>1</sub> =  $\beta$ -OCin, R<sub>2</sub> =  $\alpha$ -OH, R<sub>3</sub> = H  
**19** R<sub>1</sub> =  $\alpha$ -OH, R<sub>2</sub> =  $\alpha$ -X<sub>13</sub>, R<sub>3</sub> = H  
**20** R<sub>1</sub> =  $\alpha$ -OH, R<sub>2</sub> =  $\alpha$ -X<sub>13</sub>, R<sub>3</sub> =  $\alpha$ -OH

17	zuelaguidin A	<i>Zuelania guidonia</i>	<i>J. Nat. Prod.</i> , 2014, <b>77</b> , 455-463
18	zuelaguidin B		
19	zuelaguidin C		
20	zuelaguidin D		





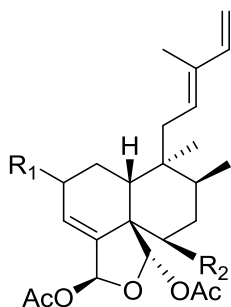
44 R = OAc, R2 = OCin

45 R1 = H, R2 = H

75 R1 = OBz, R2 = OH

44	<i>rel</i> -2 $\beta$ -acetoxy-isozuelanin-6 $\beta$ -cinnamate		
45	isozuelanin*	<i>Zuelania guidonia</i>	<i>Phytochemistry</i> , 1990, <b>29</b> , 2939-2942
75	6 $\beta$ -hydroxyisozuelanin-2 $\beta$ -benzoate		

\* Not an isolated compound



112 R1 =  $\alpha$ -OH, R2 = OCin

113 R1 =  $\alpha$ -OCin, R2 = OH

114 R1 =  $\beta$ -OH, R2 = OCin

120 R1 =  $\alpha$ -OAc, R2 = OH

121 R1 =  $\alpha$ -OOct, R2 = OH

122 R1 =  $\beta$ -OOct, R2 = OH

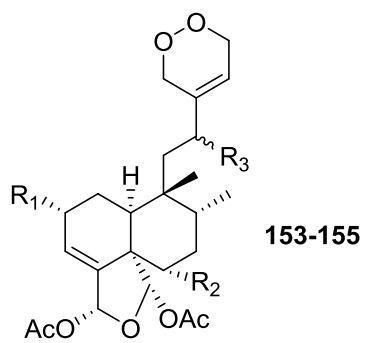
123 R1 =  $\beta$ -OBz, R2 = OH

124 R1 =  $\alpha$ -OH, R2 = OBz

125 R1 =  $\alpha$ -OH, R2 = X8

126 R1 =  $\beta$ -OBz, R2 = H

112	<i>rel</i> -2 $\alpha$ -hydroxyzuelanin-6 $\beta$ -cinnamate		
113	<i>rel</i> -6 $\beta$ -hydroxyzuelanin-2 $\alpha$ -cinnamate	<i>Zuelania guidonia</i>	<i>Phytochemistry</i> , 1990, <b>29</b> , 1609-1614
114	<i>rel</i> -2 $\beta$ -hydroxyzuelanin-6 $\beta$ -cinnamate		
120	6 $\beta$ -hydroxyzuelanin-2 $\alpha$ -acetate		
121	6 $\beta$ -hydroxyzuelanin-2 $\alpha$ - <i>n</i> -octacetate		
122	6 $\beta$ -hydroxyzuelanin-2 $\beta$ - <i>n</i> -octacetate		
123	6 $\beta$ -hydroxyzuelanin-2 $\beta$ - <i>n</i> -benzoate	<i>Zuelania guidonia</i>	<i>Phytochemistry</i> , 1990, <b>29</b> , 2939-2942
124	2 $\alpha$ -hydroxyzuelanin-6 $\beta$ - <i>n</i> -benzoate		
125	2 $\alpha$ -hydroxyzuelanin-6 $\beta$ - <i>n</i> -(3-hydroxy)-octanoate		
126	zuelanin-2 $\beta$ -benzoate		



		R1	R2	R3		
<b>153</b>	zuelaguidin E	OH	OCin	H	<i>Zuelania guidonia</i>	<i>J. Nat. Prod.</i> , 2014, <b>77</b> , 455-463
<b>154</b>	zuelaguidin G	Dc	OXyl	$\beta$ OH		
<b>155</b>	zuelaguidin H	Dc	OXyl	$\alpha$ OH		

## Abbreviation of Functional Groups

