Microbial Transformation of Diosgenin by *Cunninghamella blakesleana* AS 3.970 and Potential Inhibitory Effects on P-Glycoprotein of its Metabolites

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S1 $^1$H NMR spectrum of metabolite 1 (500 MHz, CD$_3$OD)

S2 $^{13}$C NMR spectrum of metabolite 1 (125 MHz, CD$_3$OD)
S3 HSQC spectrum of metabolite 1

S4 HMBC spectrum of metabolite 1
S5 NOESY spectrum of metabolite 1

S6 HRESIMS spectrum of metabolite 1
S7 $^1$H NMR spectrum of metabolite 2 (500 MHz, CD$_3$OD)

S8 $^{13}$C NMR spectrum of metabolite 2 (125 MHz, CD$_3$OD)
S9 ESIMS spectrum of metabolite 2

S10 $^1$H NMR spectrum of metabolite 3 (500 MHz, CD$_3$OD)
$^{13}$C NMR spectrum of metabolite 3 (125 MHz, CD$_3$OD)

S12 HSQC spectrum of metabolite 3
S13 HMBC spectrum of metabolite 3

S14 NOESY spectrum of metabolite 3
S15 HRESIMS spectrum of metabolite 3

S16 $^1$H NMR spectrum of metabolite 4 (500 MHz, CD$_3$OD)
S17$^{13}$C NMR spectrum of metabolite 4 (125 MHz, CD$_3$OD)

S18 HSQC spectrum of metabolite 4
S19 HMBC spectrum of metabolite 4

S20 NOESY spectrum of metabolite 4
S21 HRESIMS spectrum of metabolite 4

79-97-2-1-1 #8-10 RT: 0.09-0.11 Av: 3 SB: 4 0.76-0.79 NL: 2.02E6 T: FTMS + p ESI Full ms [120.00-1000.00] 485.2875

S22 $^1$H NMR spectrum of metabolite 5 (500 MHz, CD$_3$OD)
S23\textsuperscript{13}C NMR spectrum of metabolite 5 (125 MHz, CD\textsubscript{3}OD)

S24 HSQC spectrum of metabolite 5
S25 HMBC spectrum of metabolite 5

S26 NOESY spectrum of metabolite 5
S27 HRESIMS spectrum of metabolite 5

S28 $^1$H NMR spectrum of metabolite 6 (500 MHz, CD$_3$OD)
S29$^{13}$C NMR spectrum of metabolite 6 (125 MHz, CD$_3$OD)

S30 HSQC spectrum of metabolite 6
S31 HMBC spectrum of metabolite 6

S32 NOESY spectrum of metabolite 6
S33 HRESIMS spectrum of metabolite 6

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S36 ESIMS spectrum of metabolite 7
S37 $^1$H NMR spectrum of metabolite 8 (500 MHz, CD$_3$OD)

S38 $^{13}$C NMR spectrum of metabolite 8 (125 MHz, CD$_3$OD)
S39 HSQC spectrum of metabolite 8

S40 HMBC spectrum of metabolite 8
S41 NOESY spectrum of metabolite 8

S42 HRESIMS spectrum of metabolite 8

sxy2-m462 #10-11 RT: 0.10-0.11 Av: 2 SB: 3 0.66-0.70 NL: 2.48E6 T: FTMS + p ESI Full ms [200.00-1000.00]
S43 $^1$H NMR spectrum of metabolite 9 (500 MHz, CD$_3$OD)

S44 $^{13}$C NMR spectrum of metabolite 9 (125 MHz, CD$_3$OD)
S45 HSQC spectrum of metabolite 9

S46 HMBC spectrum of metabolite 9
S47 ESIMS spectrum of metabolite 9

[Image of ESIMS spectrum]

+Q1: 30 MCA scans from Sample 28 [SY-5 Q1+] of 20141002-MZP.wiff (Turbo Spr... Max. 1.3e8 cps.

S48 $^1$H NMR spectrum of metabolite 10 (500 MHz, CD$_3$OD)

[Image of NMR spectrum]
S49 $^{13}$C NMR spectrum of metabolite 10 (125 MHz, CD$_3$OD)

S50 HSQC spectrum of metabolite 10
S51 HMBC spectrum of metabolite 10

S52 NOESY spectrum of metabolite 10
S53 HRESIMS spectrum of metabolite 10

S54 $^1$H NMR spectrum of metabolite 11 (500 MHz, CD$_3$OD)
S55 $^{13}$C NMR spectrum of metabolite **11** (125 MHz, CD$_3$OD)

S56 ESIMS spectrum of metabolite **11**