

Electronic Supplementary Information

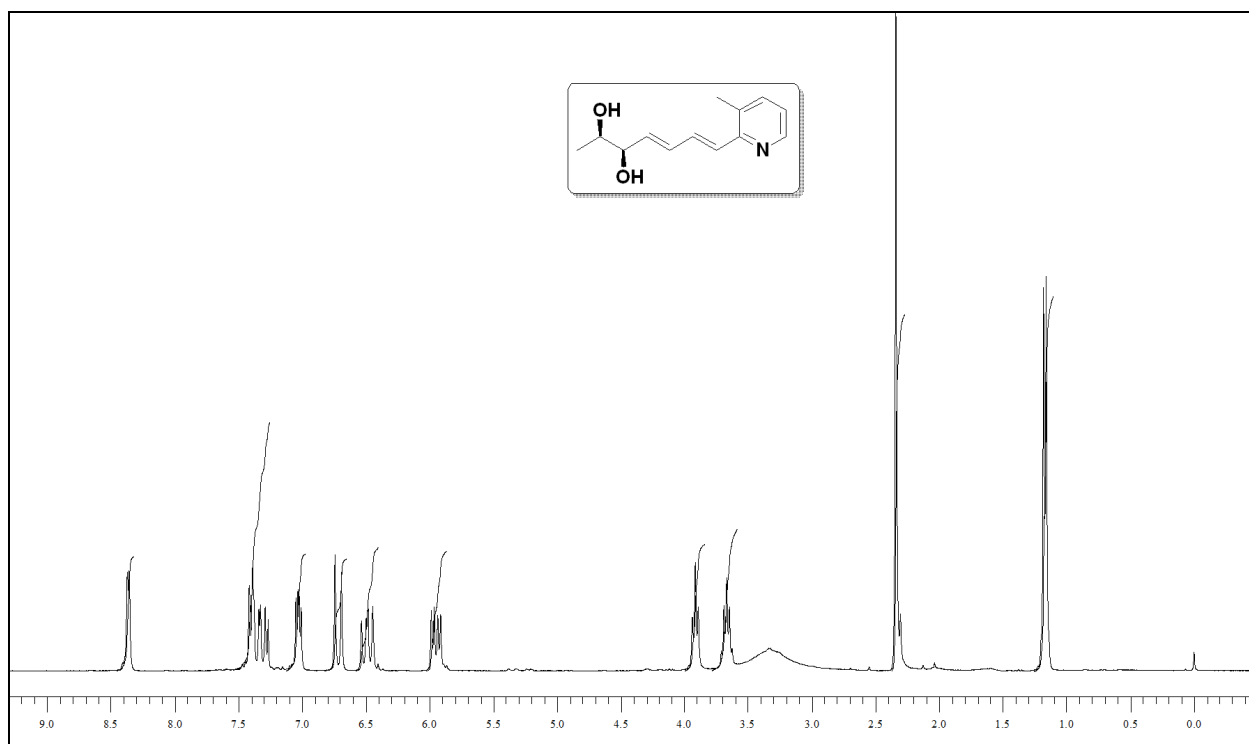
First total synthesis of Fuzanins C, D and their analogues as anticancer agents

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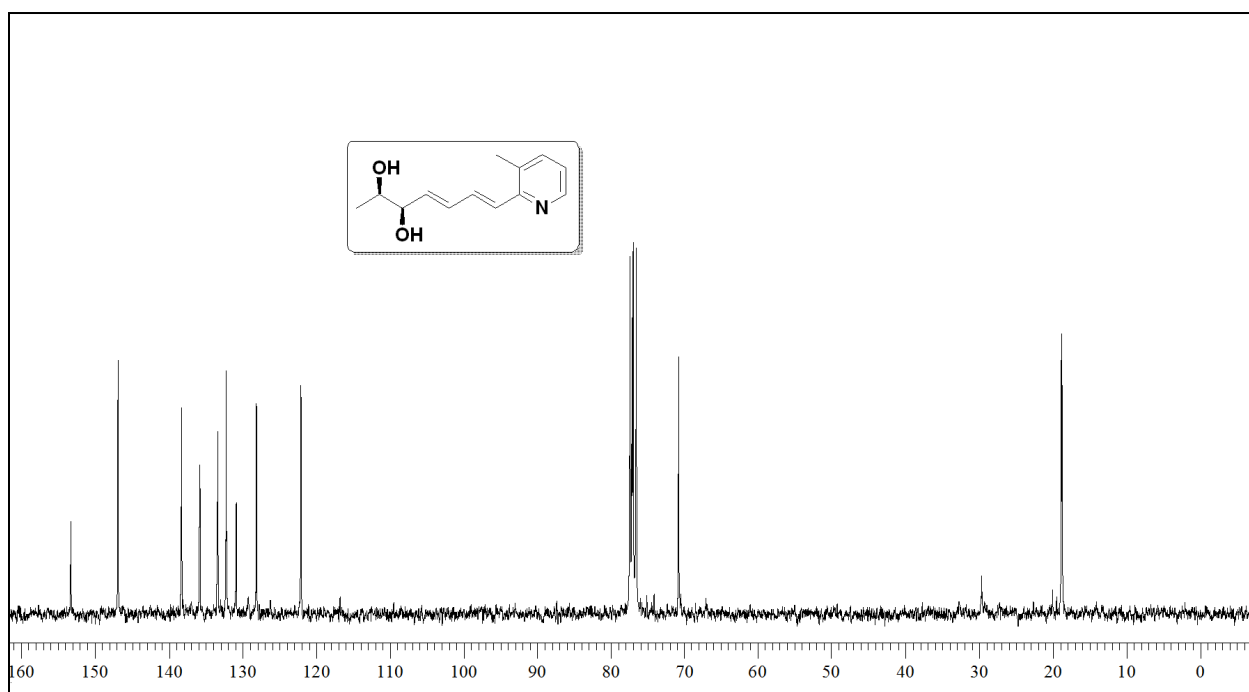
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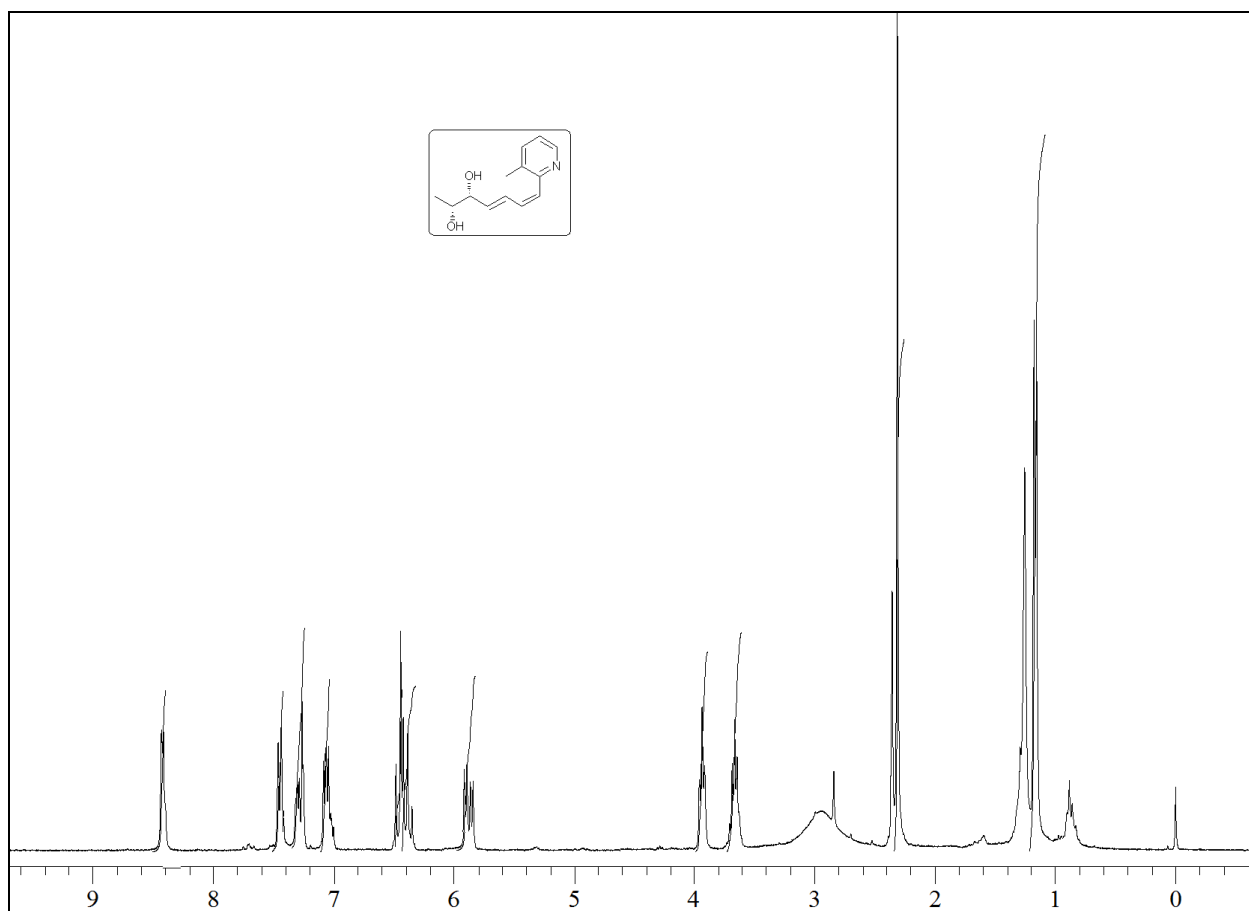
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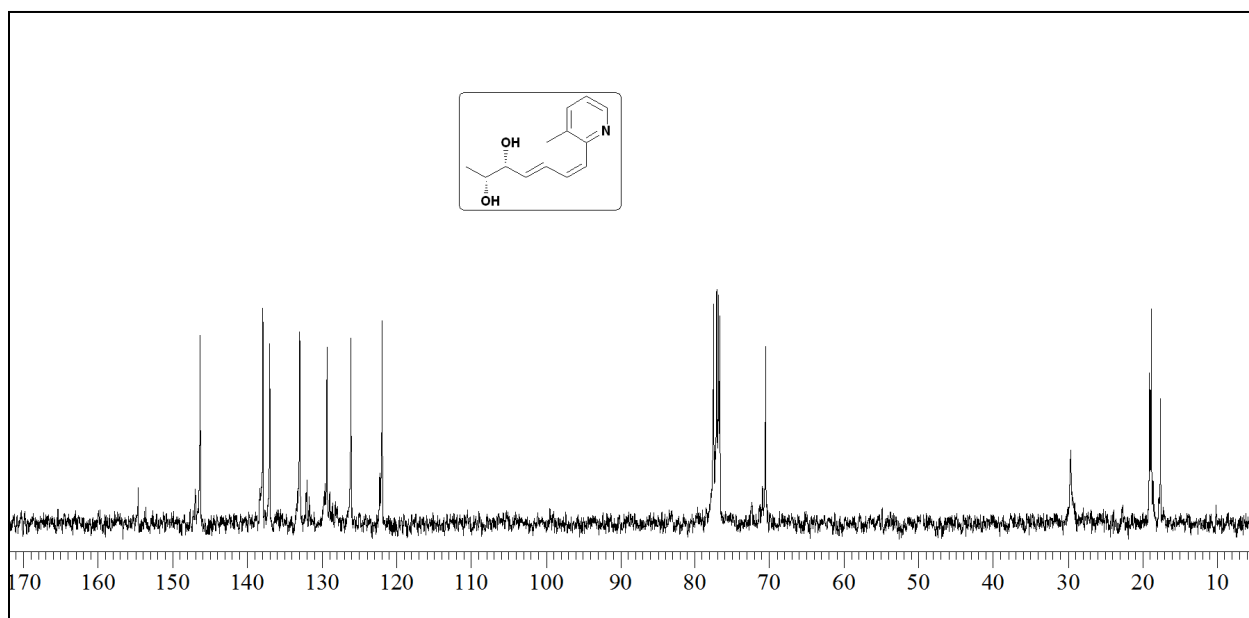
^1H NMR spectrum of fuzanin C (**3a**)



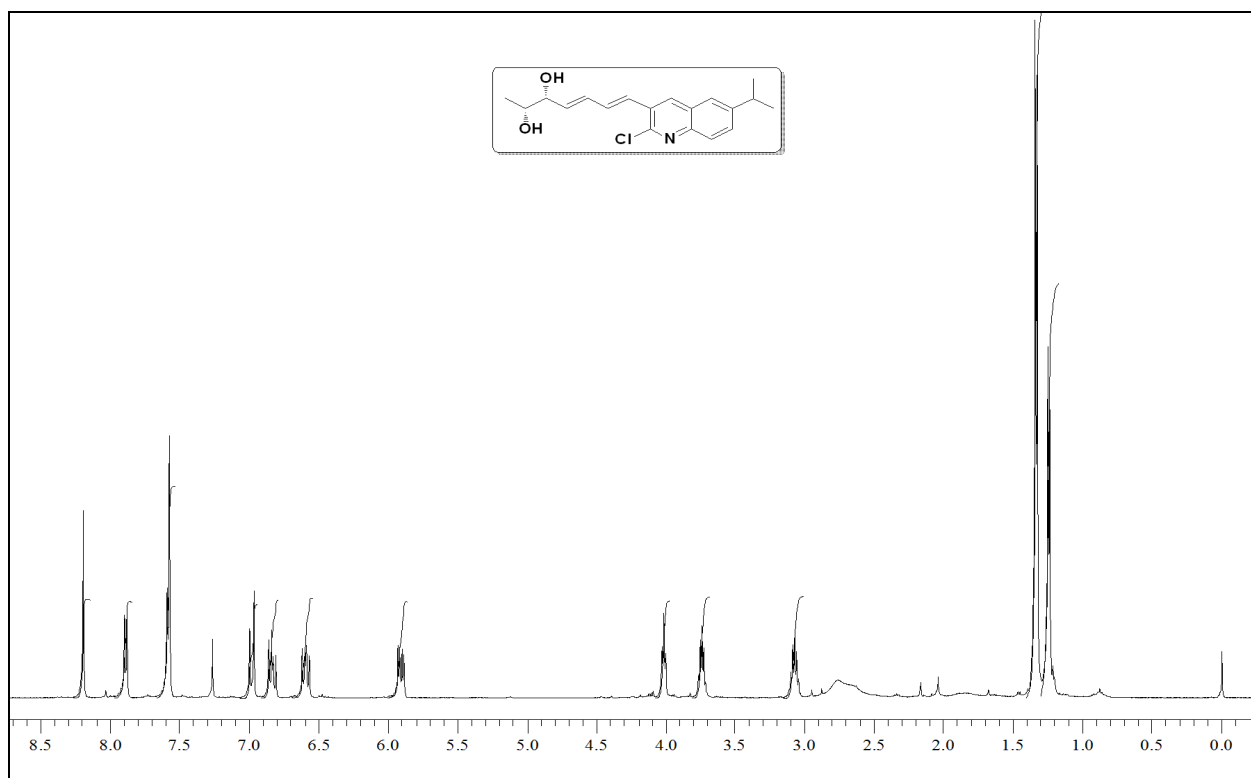
^{13}C NMR spectrum of fuzanin C (**3a**)



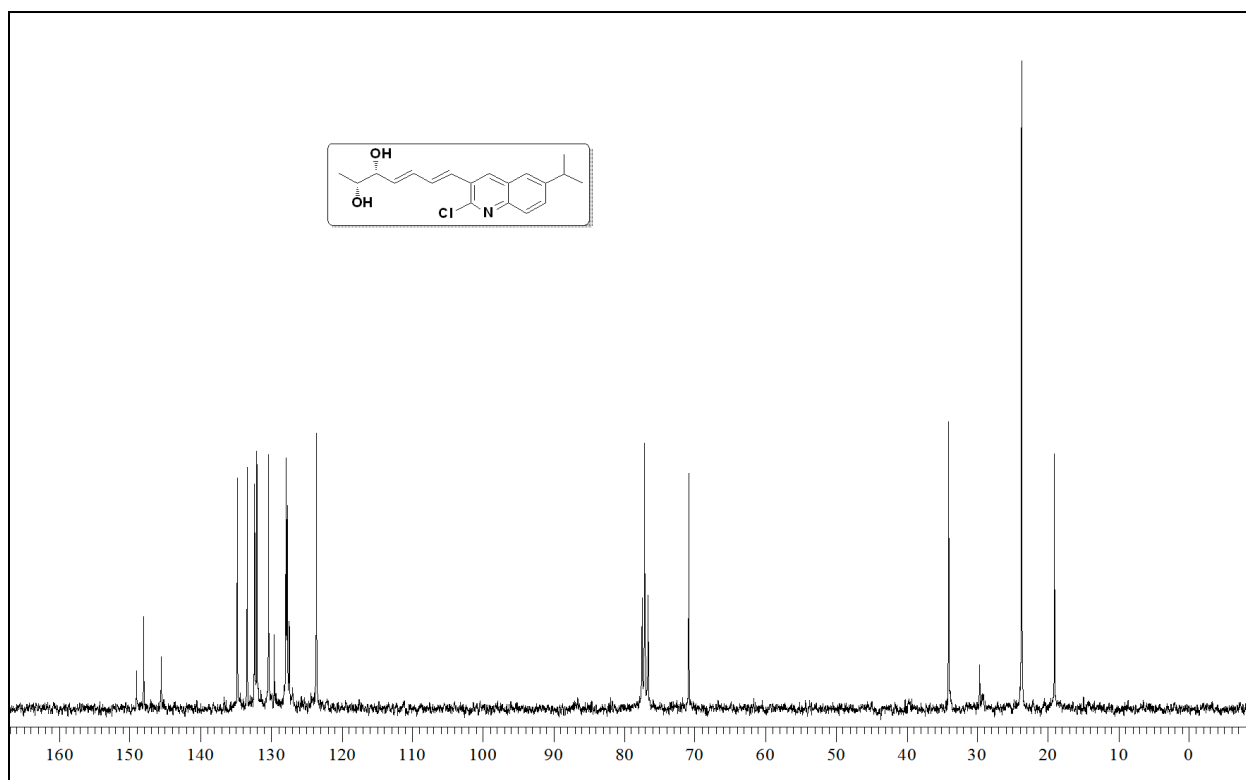
^1H NMR spectrum of compound **3b**



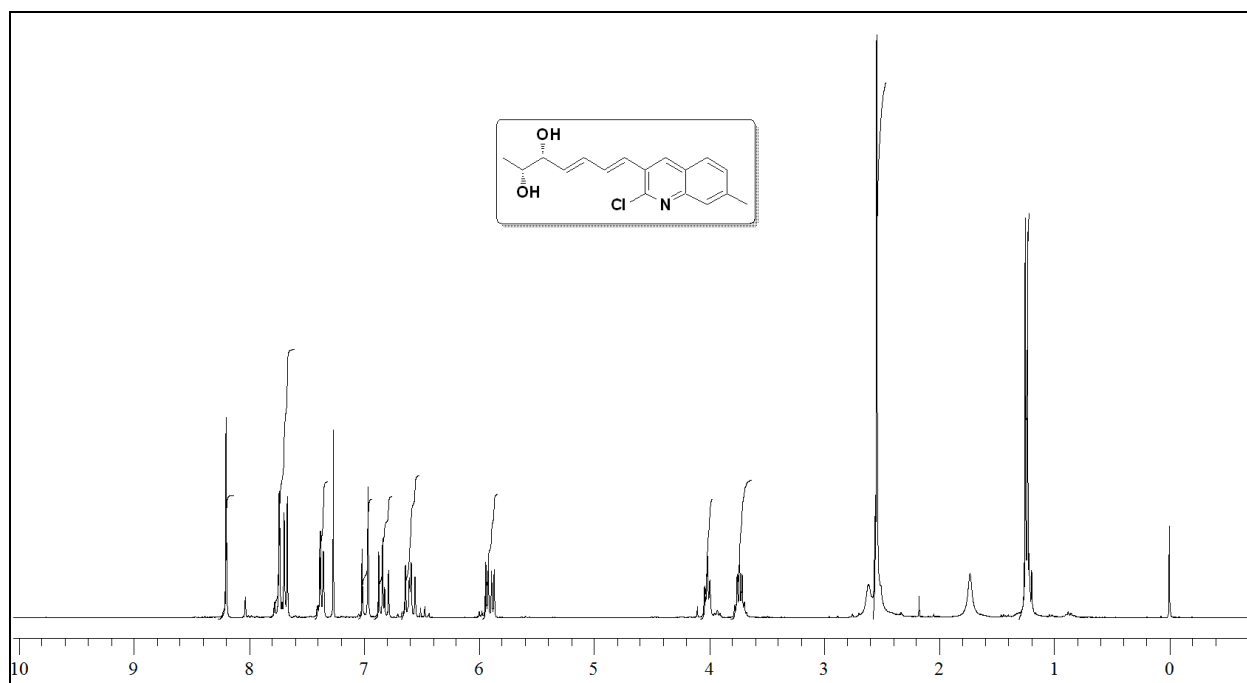
^{13}C NMR spectrum of compound **3b**



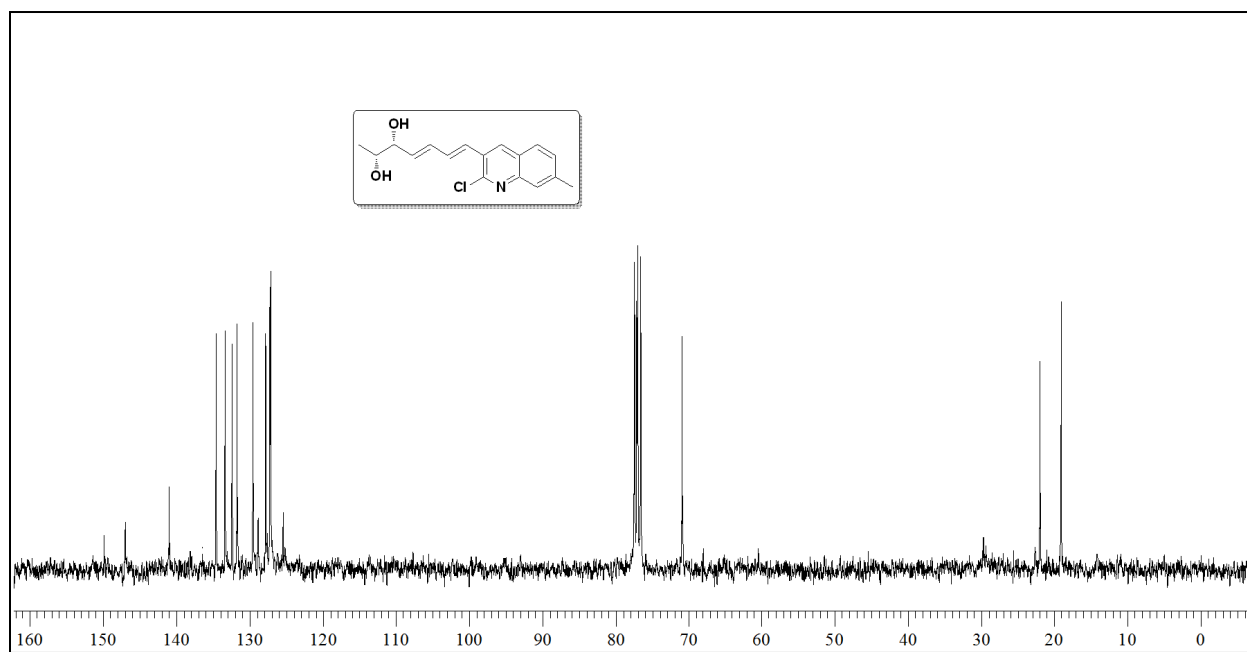
^1H NMR spectrum of compound **3c**



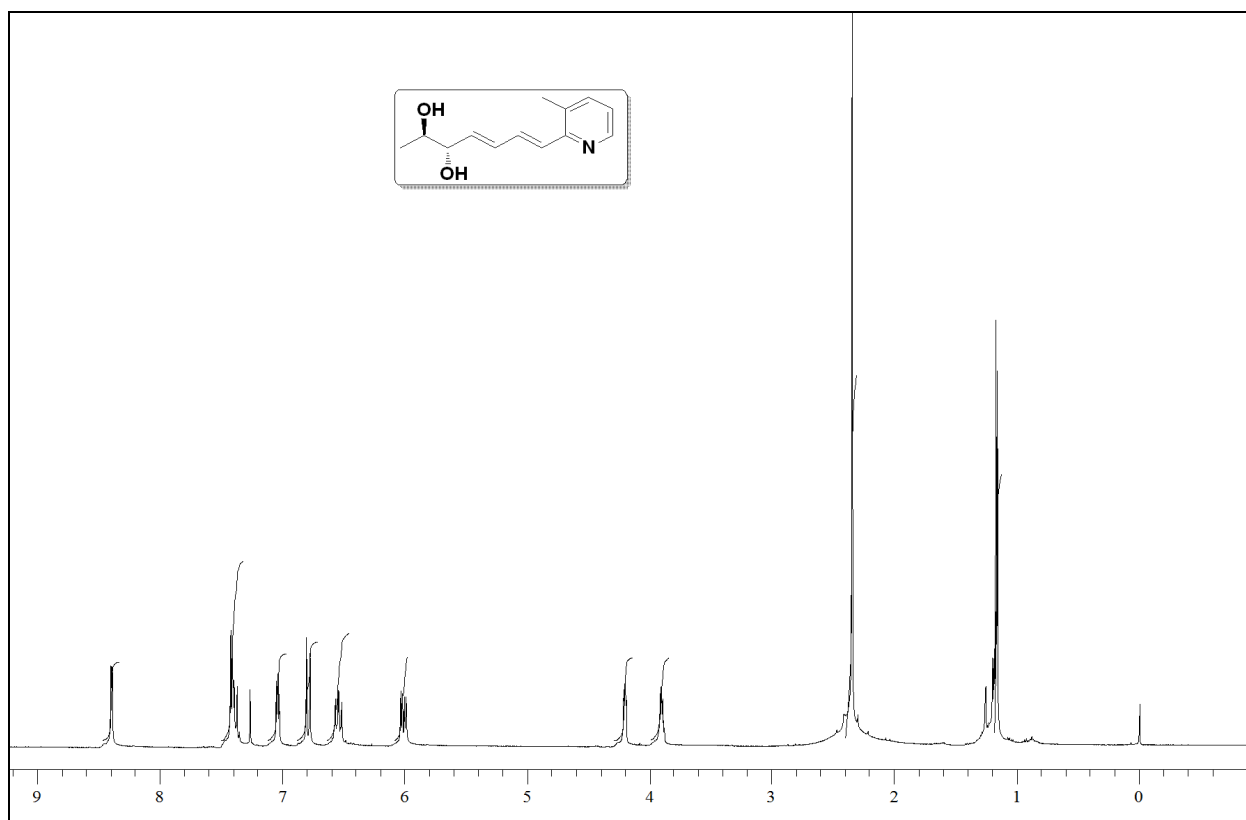
^{13}C NMR spectrum of compound **3c**



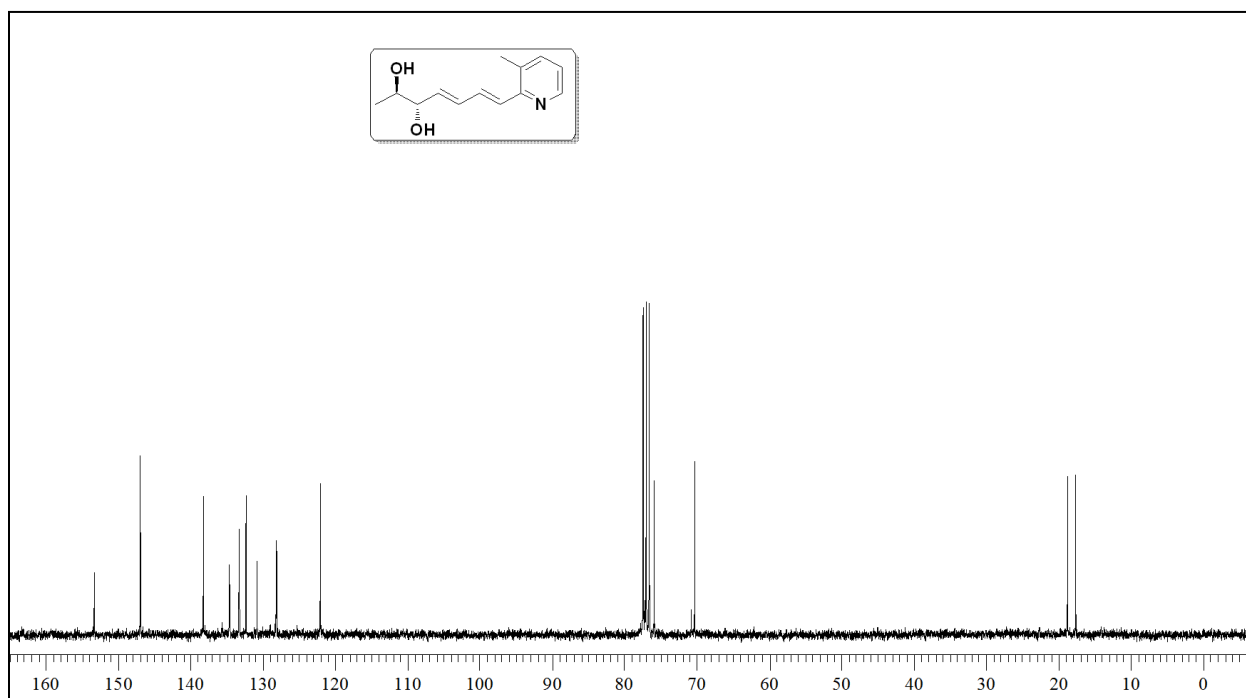
^1H NMR spectrum of compound **3d**



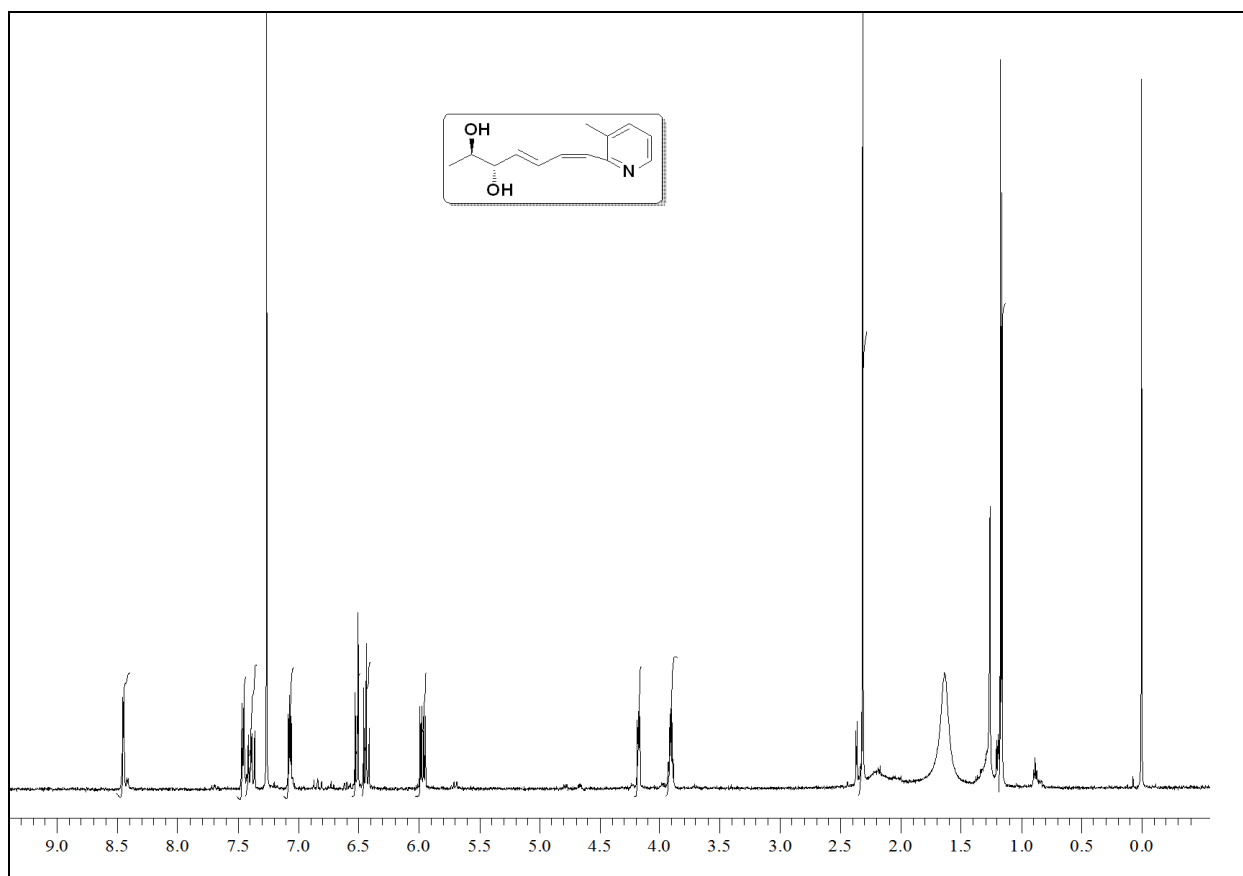
^{13}C NMR spectrum of compound **3d**



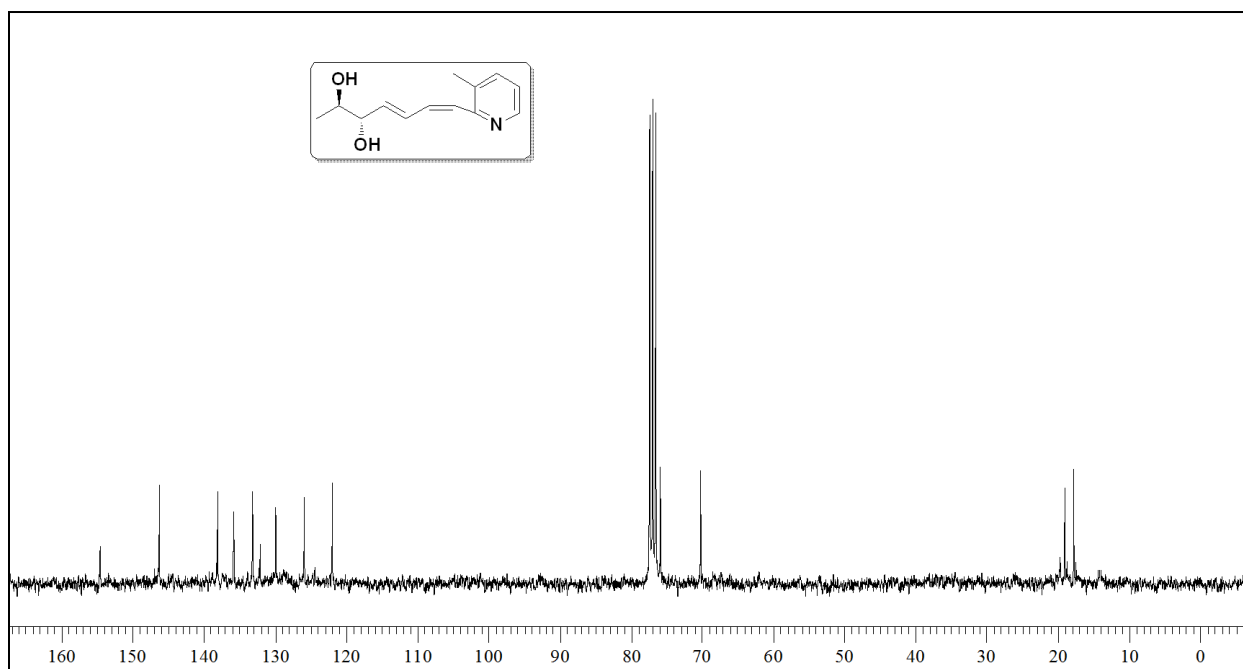
^1H NMR spectrum of fuzanin D (**4a**)



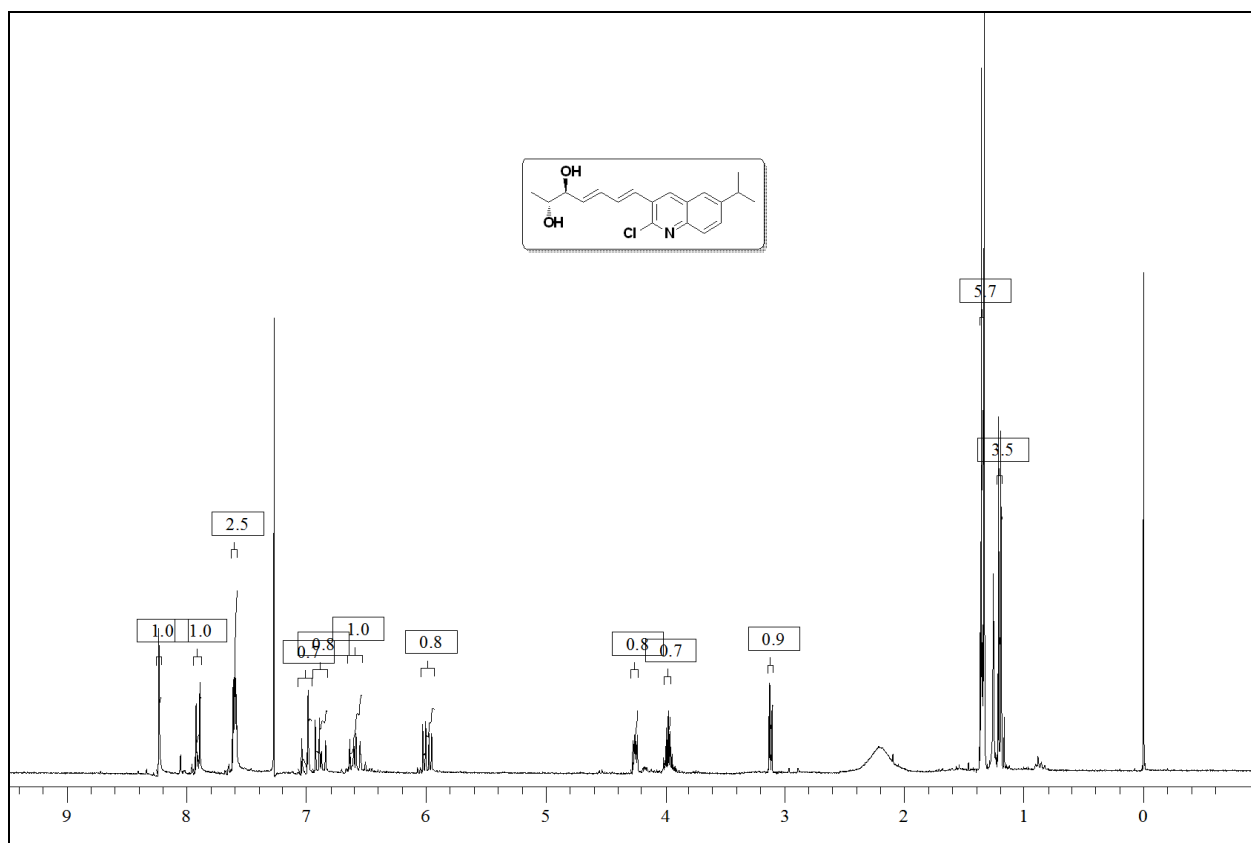
^{13}C NMR spectrum of fuzanin D (**4a**)



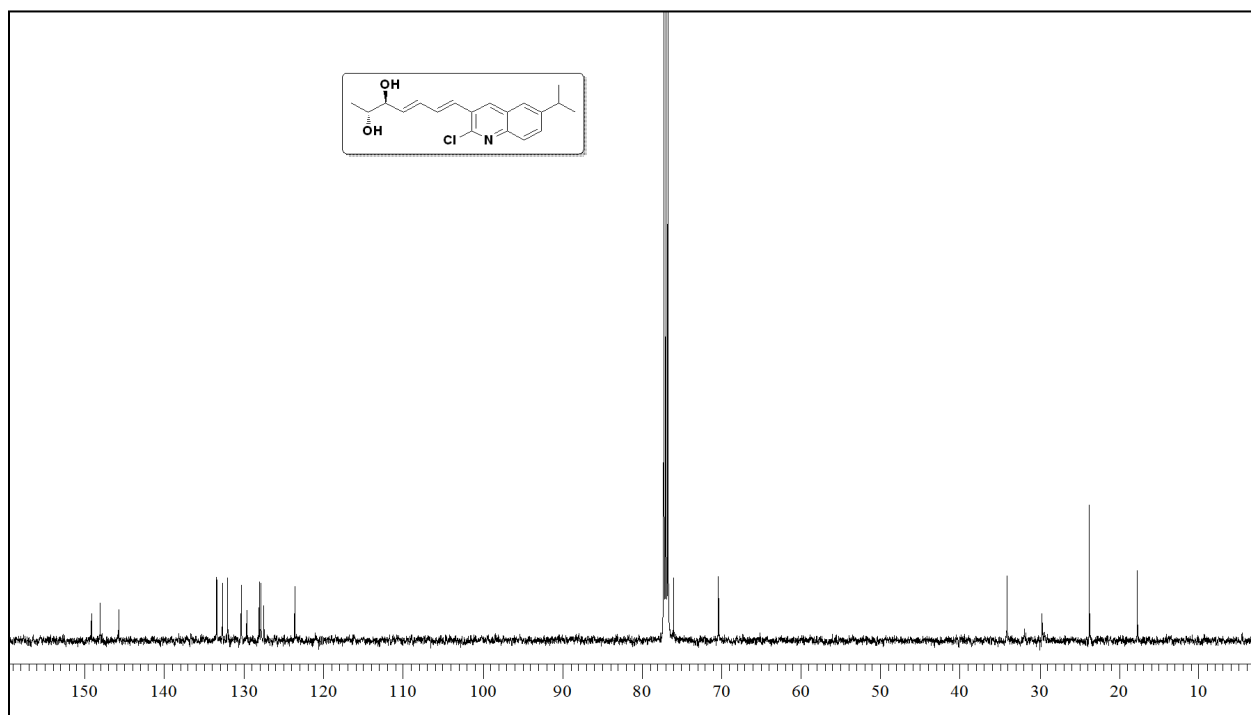
^1H NMR spectrum of compound **4b**



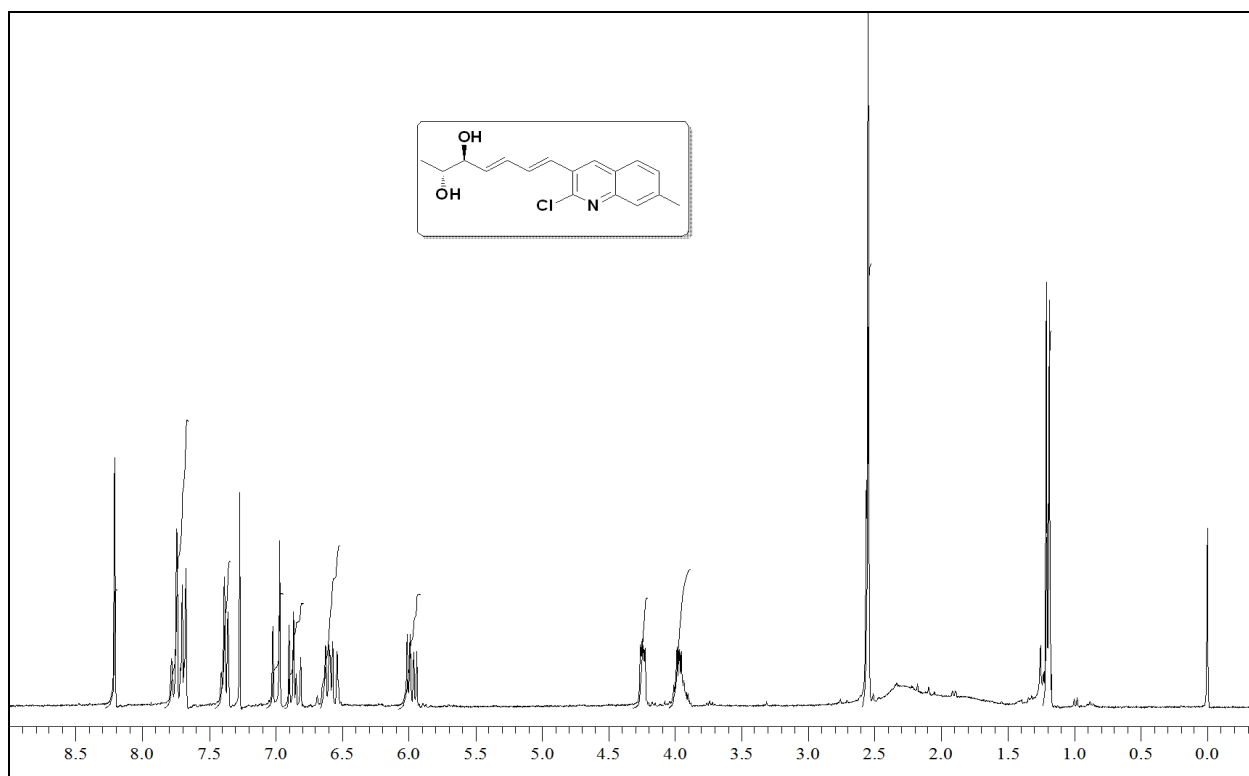
^{13}C NMR spectrum of compound **4b**



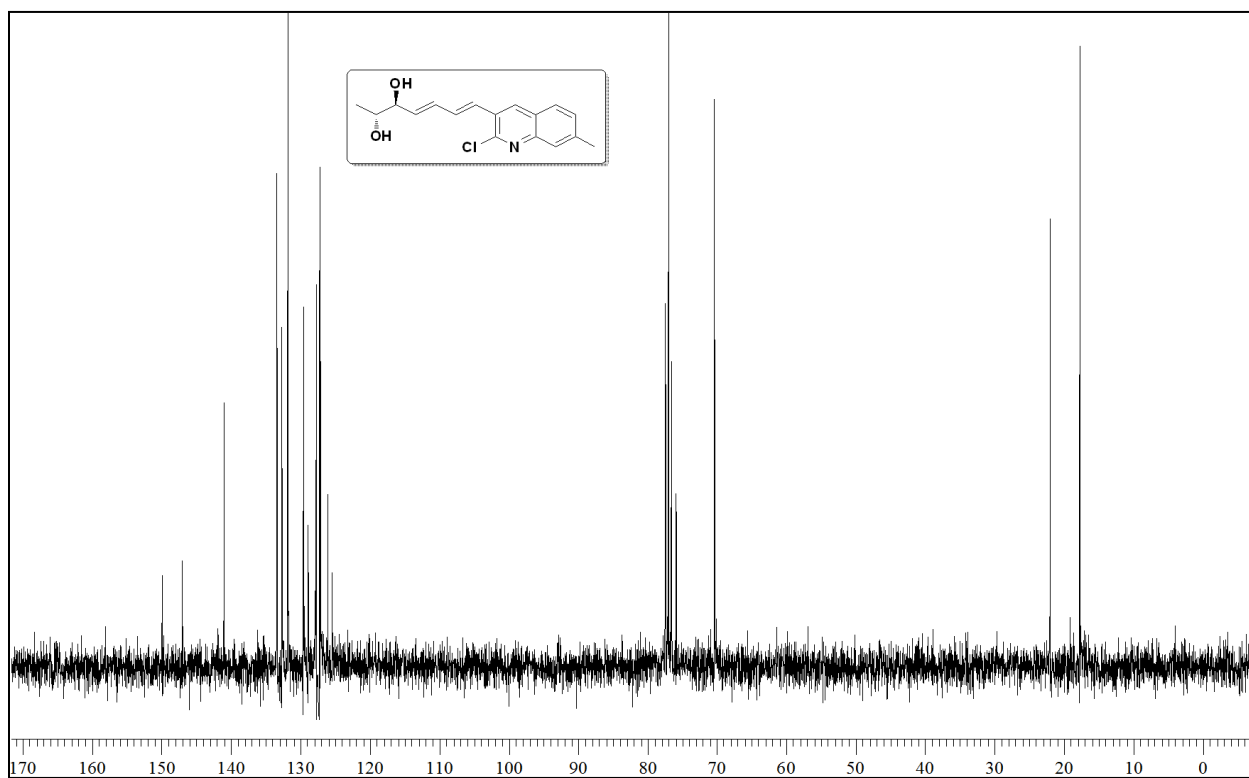
^1H NMR spectrum of compound **4c**



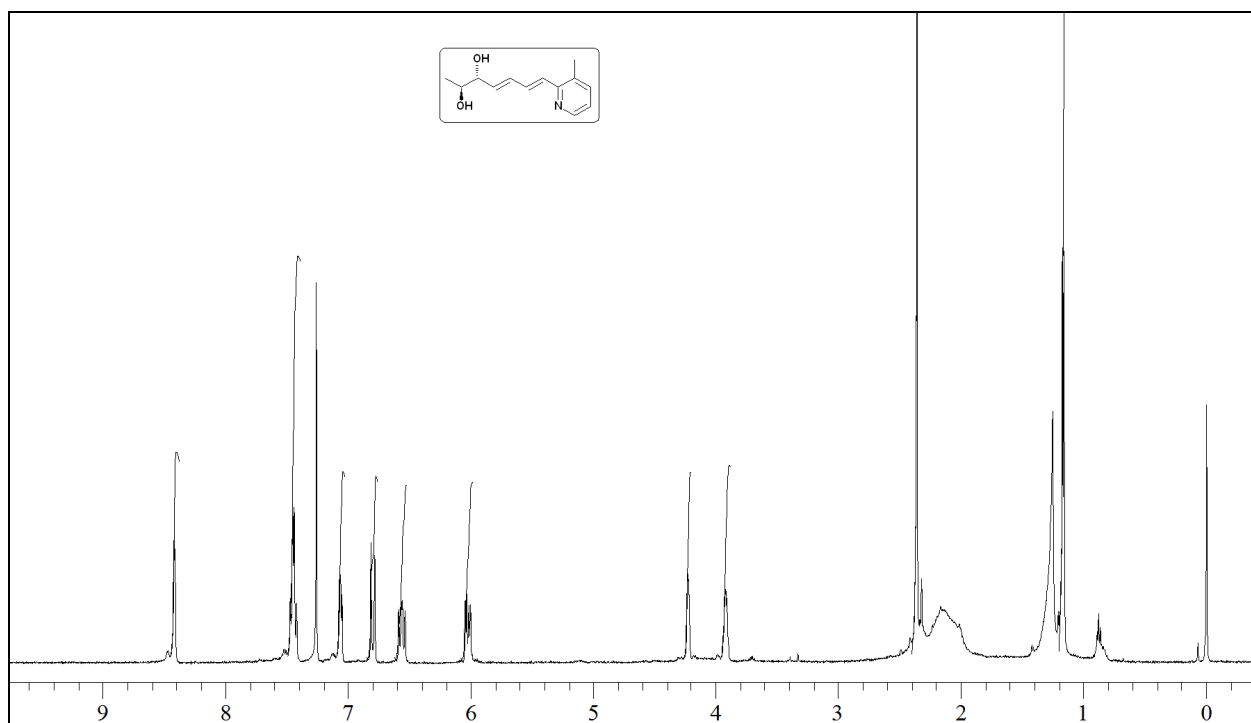
^{13}C NMR spectrum of compound **4c**



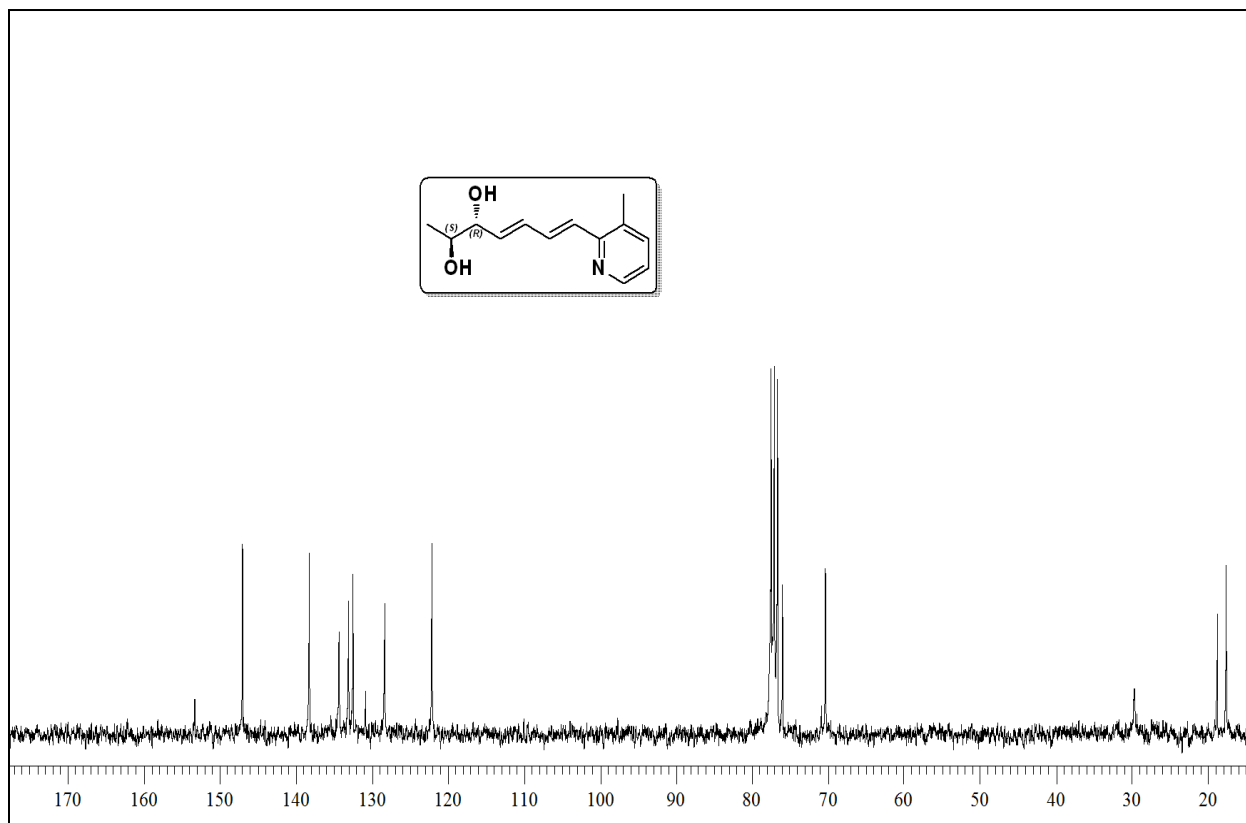
^1H NMR spectrum of compound **4d**



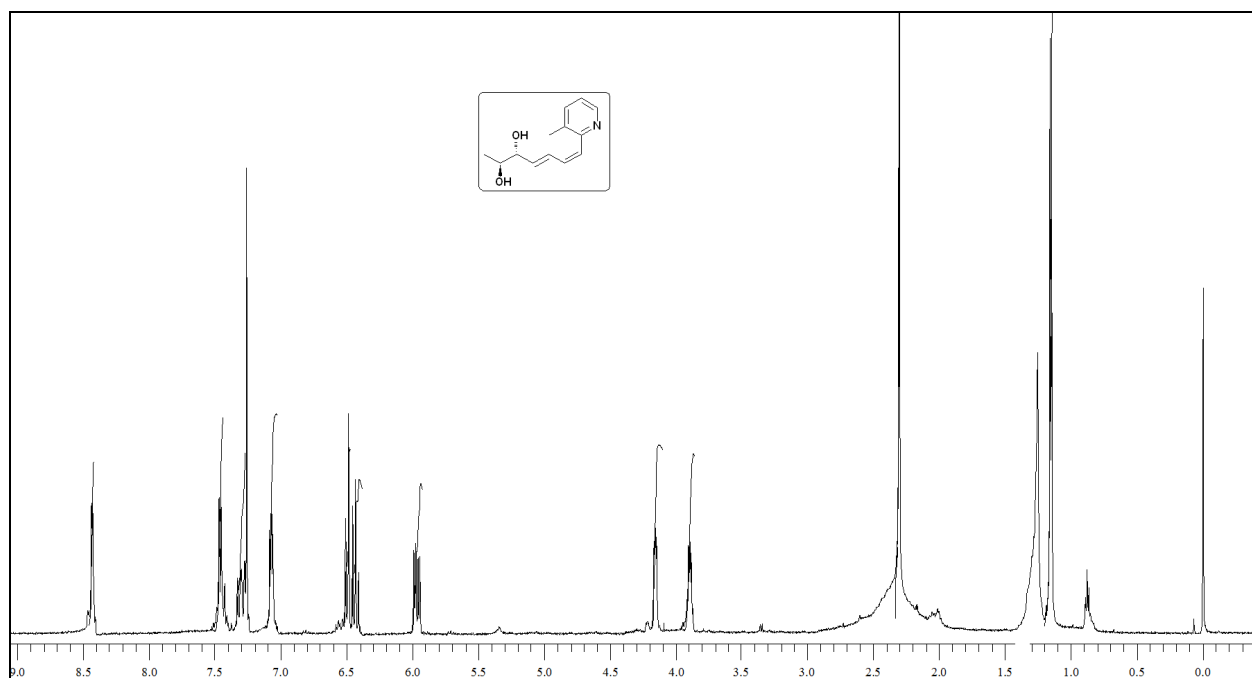
^{13}C NMR spectrum of compound **4d**



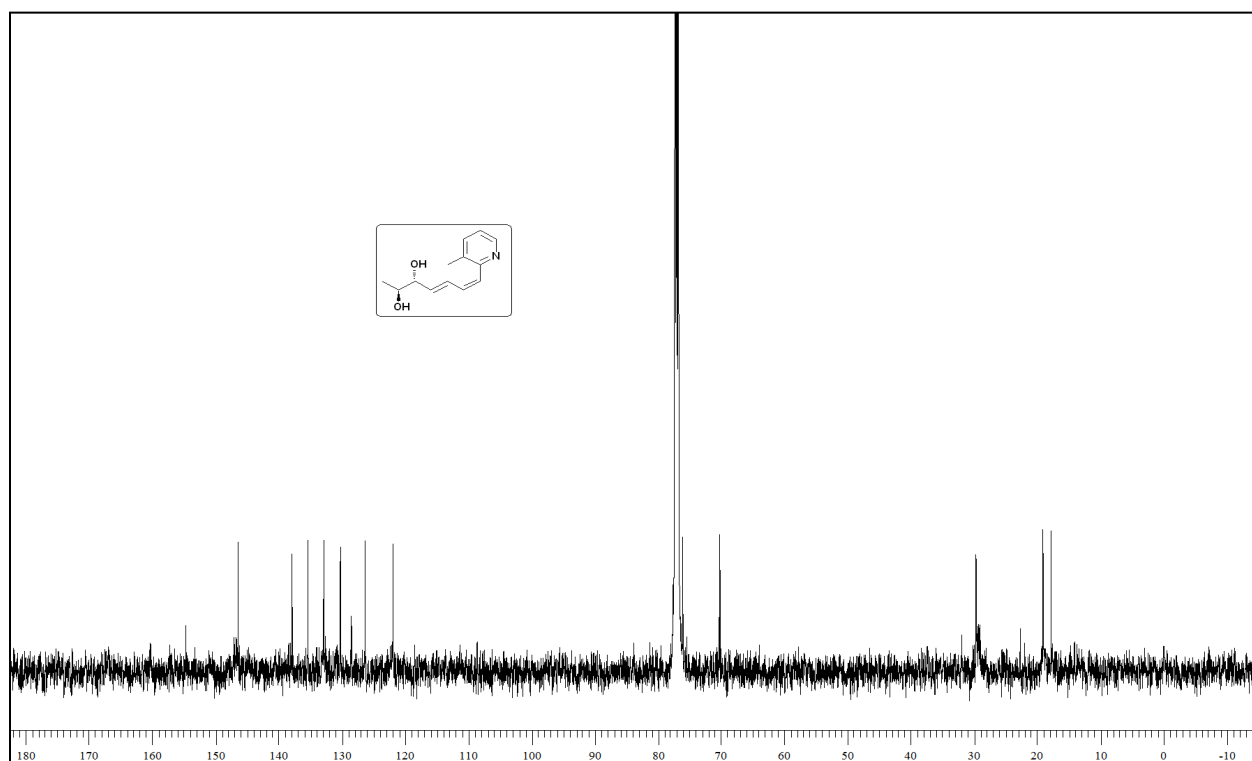
^1H NMR spectrum of (11*R*, 12*S*)-fuzanin D [(11*R*, 12*S*)-4a]



^{13}C NMR spectrum of (11*R*, 12*S*)-fuzanin D [(11*R*, 12*S*)-4a]



^1H NMR spectrum of compound (11*R*, 12*S*)-4b



^{13}C NMR spectrum of compound (11*R*, 12*S*)-4b

Molecular Modeling

Cartesian Coordinates

Fuzanin C (3a)

C	3.77481800	0.91328100	0.02322300
C	2.62341900	0.06569200	-0.01816600
N	2.81547200	-1.28198900	0.08370700
C	4.02373000	-1.87755900	0.22103100
C	5.18057500	-1.08809900	0.25664700
C	5.04865900	0.30678300	0.16389900
C	3.68600400	2.39703300	-0.06880100
C	1.31344600	0.54841600	-0.14717800
C	0.21124800	-0.20969200	-0.32871200
C	-1.05241100	0.30075500	-0.44343100
C	-2.14957100	-0.46949200	-0.58788800
C	-3.50688600	0.05873800	-0.68972400
C	-4.14314100	0.35268700	0.70487300
C	-5.53456400	1.02235400	0.60050500
O	-4.30043400	-0.88618600	-1.41031500
O	-4.29159000	-0.84575800	1.47036500
H	4.08610100	-2.89329300	0.29635100
H	6.10336300	-1.52070100	0.34918900
H	5.89870900	0.87592700	0.20339100
H	3.14898500	2.77916200	0.80137200
H	3.14768600	2.68675000	-0.97404300
H	4.66778600	2.87948700	-0.09652100
H	1.18089400	1.53176300	-0.10152100
H	0.31900700	-1.19724500	-0.38644400
H	-1.17208300	1.29022000	-0.42037600
H	-2.04023900	-1.46069400	-0.60883900
H	-3.49510200	0.97601400	-1.28721000
H	-3.48969200	1.03195100	1.26087200
H	-5.47213500	1.94615400	0.02419900
H	-6.25118400	0.35429700	0.11977500
H	-5.90933900	1.26241600	1.59639300
H	-5.16275400	-0.44603800	-1.55669900
H	-3.38406700	-1.19209000	1.59608300

Fuzanin D (4a)

C	-5.05660100	0.10183800	0.15887500
C	-5.09103800	-1.28548600	0.04880900
C	-3.87558500	-1.95682500	-0.09570000
C	-2.66166600	0.00671000	-0.02745200
C	-3.83801300	0.78433700	0.12358700
H	-5.97998900	0.66529200	0.27385500
H	-6.02877200	-1.83226100	0.07425100
H	-3.85011300	-3.04221800	-0.18505900
N	-2.69793400	-1.33873600	-0.13375400
C	-1.33761000	0.63629700	-0.07610800
H	-1.30355900	1.72081500	-0.00655300
C	-0.17501300	-0.04151000	-0.19942700
H	-0.21447000	-1.12664700	-0.26553400
C	1.12411000	0.59538100	-0.24912400
H	1.13986400	1.68536700	-0.18236800
C	2.29142400	-0.06702700	-0.36863000
H	2.30064600	-1.15429400	-0.43058700
C	3.63185800	0.59964900	-0.44924400
C	4.68113200	0.00039300	0.50899700
H	3.52988000	1.67689600	-0.24343000
O	4.21243800	0.40478900	-1.75814600
H	3.50437900	0.52384200	-2.41028700
H	5.60494100	0.58457000	0.35741300
O	4.91143900	-1.36188100	0.17210700
H	5.04647900	-1.36287400	-0.79188600
C	-3.80443000	2.29003500	0.24567800
H	-3.35814100	2.76338200	-0.63760200
H	-3.22262000	2.61721600	1.11611400
H	-4.81699200	2.69003900	0.35711800
C	4.27798000	0.06601400	1.97415100
H	5.06954400	-0.36526400	2.59440700
H	4.11735900	1.10350700	2.28859100
H	3.35679100	-0.49831100	2.14968300

(11*R*, 12*S*)- Fuzanin-D (Revised) [(11*R*, 12*S*)-4a]

C	4.64994900	0.96234000	0.12160900
C	5.37819000	-0.18674700	0.41287300
C	4.68354900	-1.39462400	0.46234600
C	2.65460100	-0.37458200	-0.01976900
C	3.27140300	0.90317300	-0.10281800
H	5.15198600	1.92552600	0.06240200
H	6.44904600	-0.14934400	0.58865100
H	5.20365500	-2.32725300	0.67728900
N	3.37356500	-1.49163400	0.25181800
C	1.23140200	-0.67844100	-0.21346300
H	1.05806500	-1.75306700	-0.19125000
C	0.15097900	0.11987800	-0.37919600
H	0.23454300	1.20102000	-0.39131600
C	-1.18918700	-0.41655300	-0.53259600
H	-1.29598500	-1.49986800	-0.54478500
C	-2.29441500	0.33650300	-0.68566500
H	-2.20082800	1.42298000	-0.71397500
C	-3.69520100	-0.21517600	-0.82503000
H	-4.15515800	0.20674600	-1.73067800
C	-4.59044800	0.15105600	0.38983300
H	-5.58576400	-0.25484700	0.17922300
O	-3.71494700	-1.62570000	-0.97203900
H	-3.74559800	-1.96865300	-0.05918200
O	-4.13727200	-0.60133900	1.52348500
H	-3.23118400	-0.29993900	1.71537100
C	2.53206200	2.17685500	-0.42735900
H	1.96882300	2.09336000	-1.36422500
H	1.81700600	2.44788000	0.35964400
H	3.23450200	3.00960700	-0.53225700
C	-4.70028500	1.64047800	0.70177900
H	-5.06116700	2.20079600	-0.16921300
H	-5.40233000	1.79638300	1.52649800
H	-3.73239900	2.06147500	0.99824500