

## Supplementary Material

### Versatile synthesis of novel tetrahydroquinolines as potentially active semicarbazide-sensitive amine oxidase (SSAO) inhibitors via *tert*-amino effect

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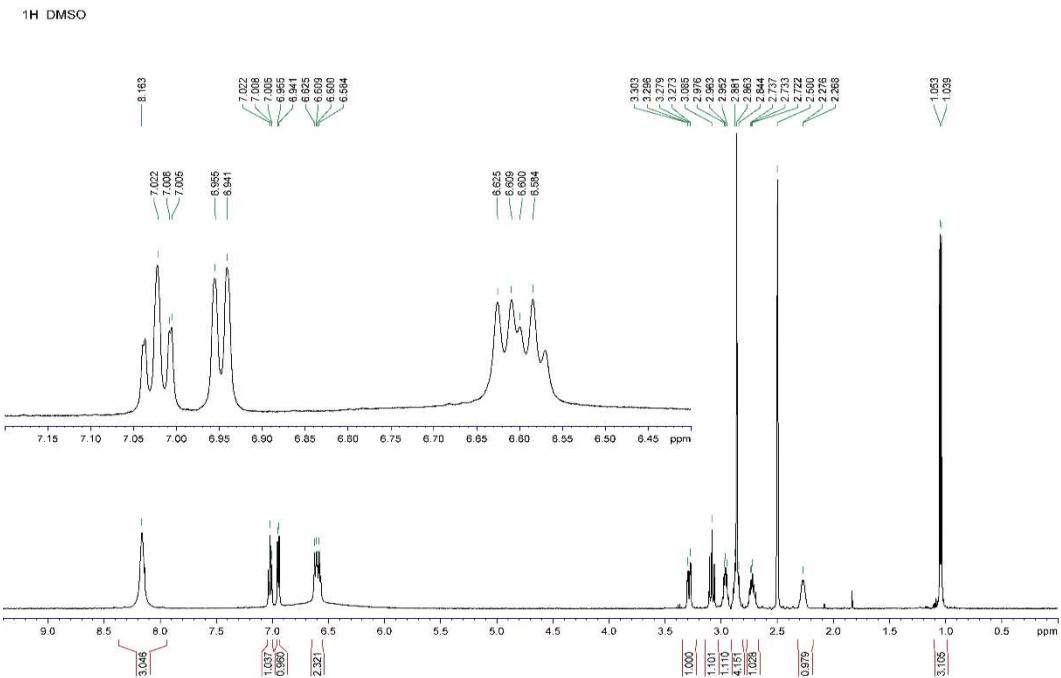
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<sup>e</sup>Department of Pharmaceutical Chemistry, Semmelweis University, Hőgyes E. u. 9., H-1092 Budapest, Hungary

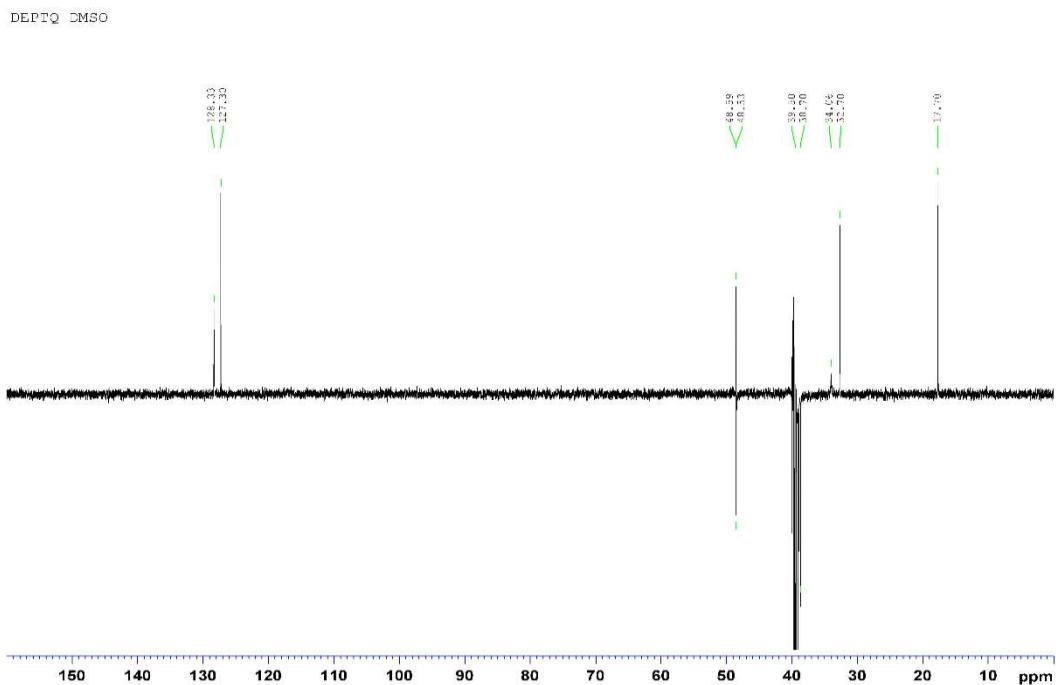
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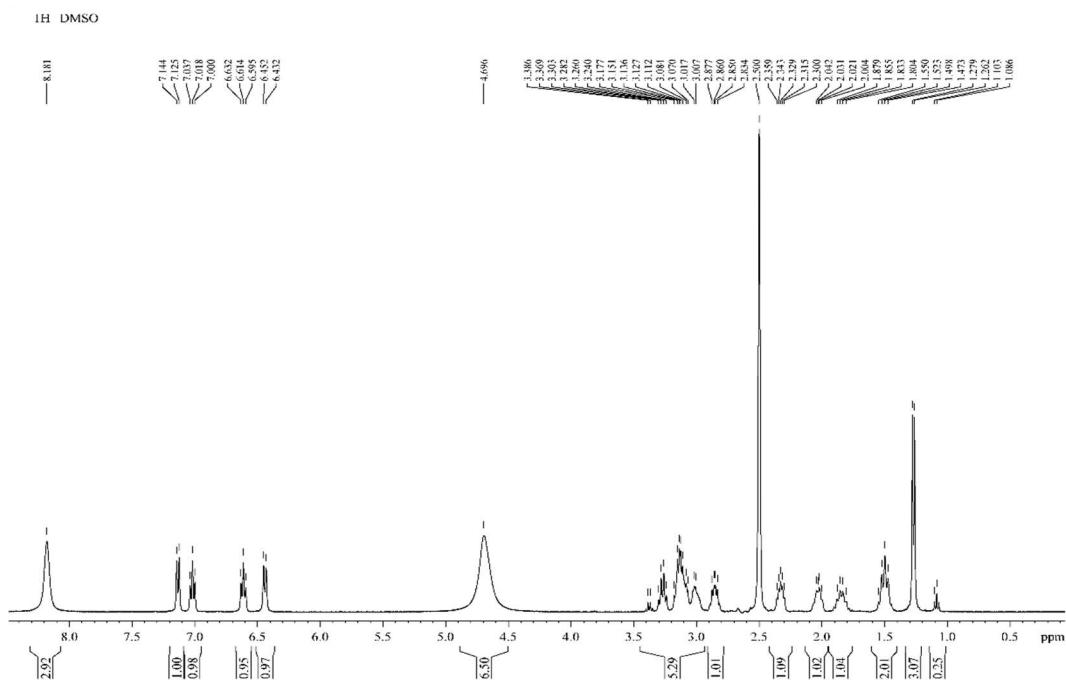
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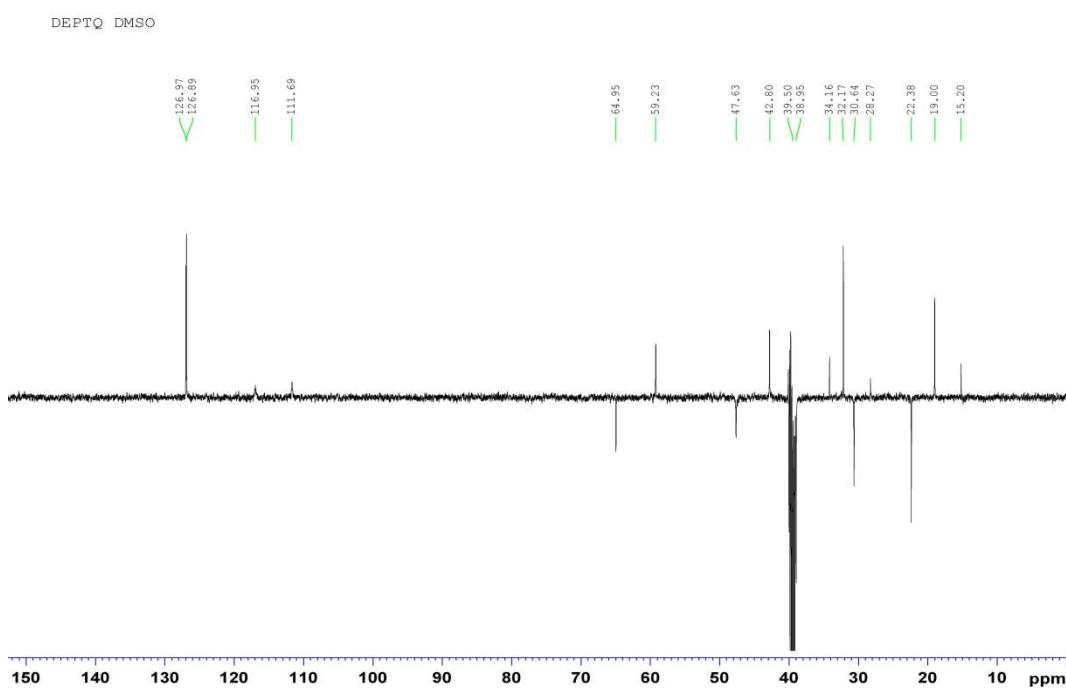
<sup>1</sup>H NMR spectrum of (*cis*-( $\pm$ )-1,4-Dimethyl-1,2,3,4-tetrahydroquinolin-3-yl)methanamine dihydrochloride (**11a cis**); 500 MHz.



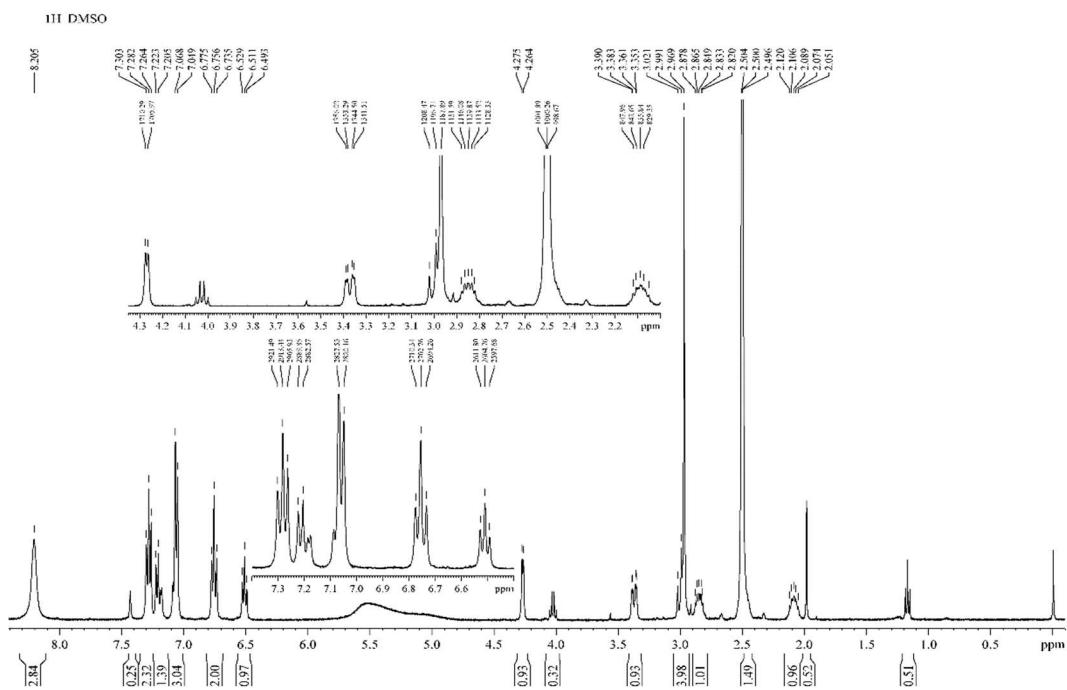
DEPTQ spectrum of (*cis*-( $\pm$ )-1,4-Dimethyl-1,2,3,4-tetrahydroquinolin-3-yl)methanamine dihydrochloride (**11a cis**); 125 MHz.



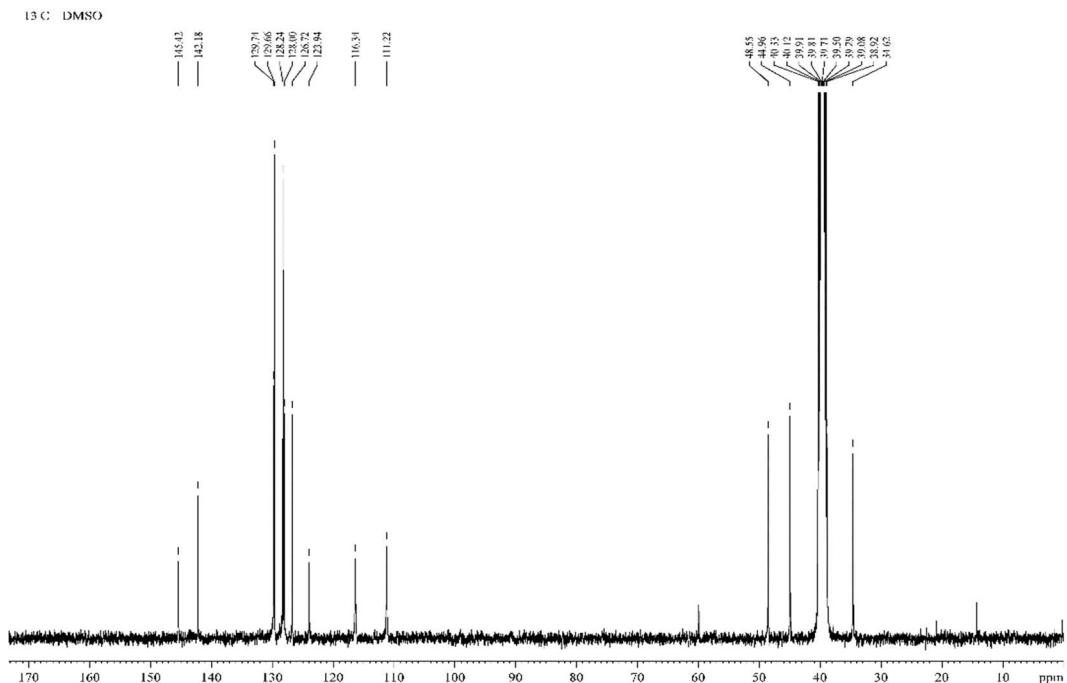
<sup>1</sup>H NMR spectrum of [*cis-trans*-( $\pm$ )-5-Methyl-1,2,3,3a,4,5-hexahydropyrrolo[1,2-*a*]quinolin-4-yl]methanamine dihydrochloride (**11b cis-trans**); 400 MHz.



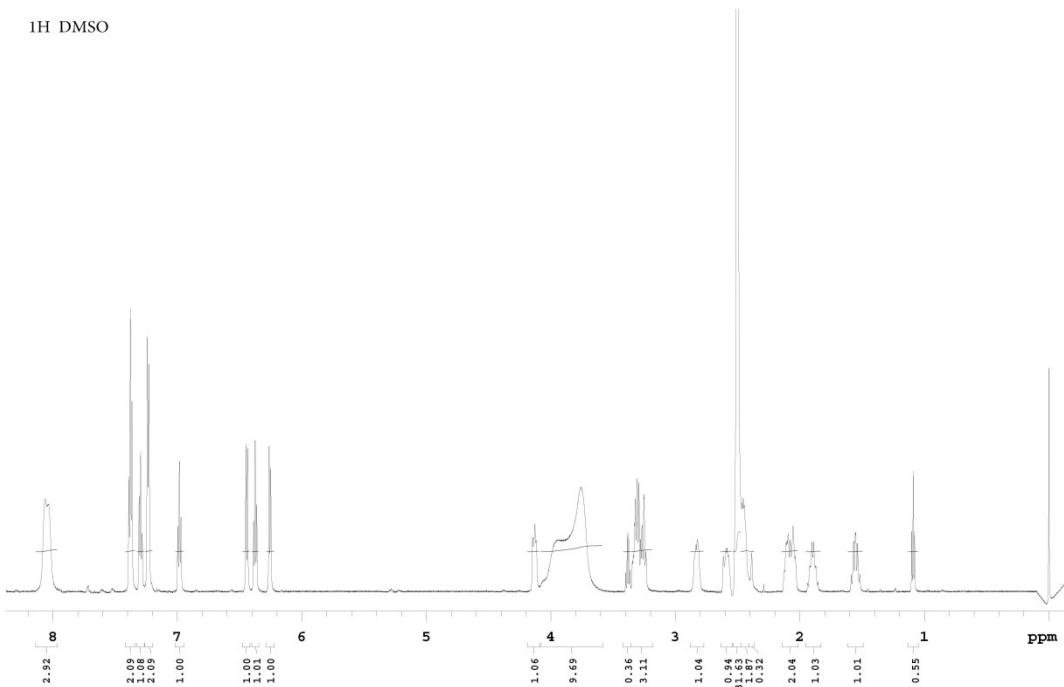
DEPTQ spectrum of [*cis-trans*-( $\pm$ )-5-Methyl-1,2,3,3a,4,5-hexahydropyrrolo[1,2-*a*]quinolin-4-yl]methanamine dihydrochloride (**11b cis-trans**); 125 MHz.



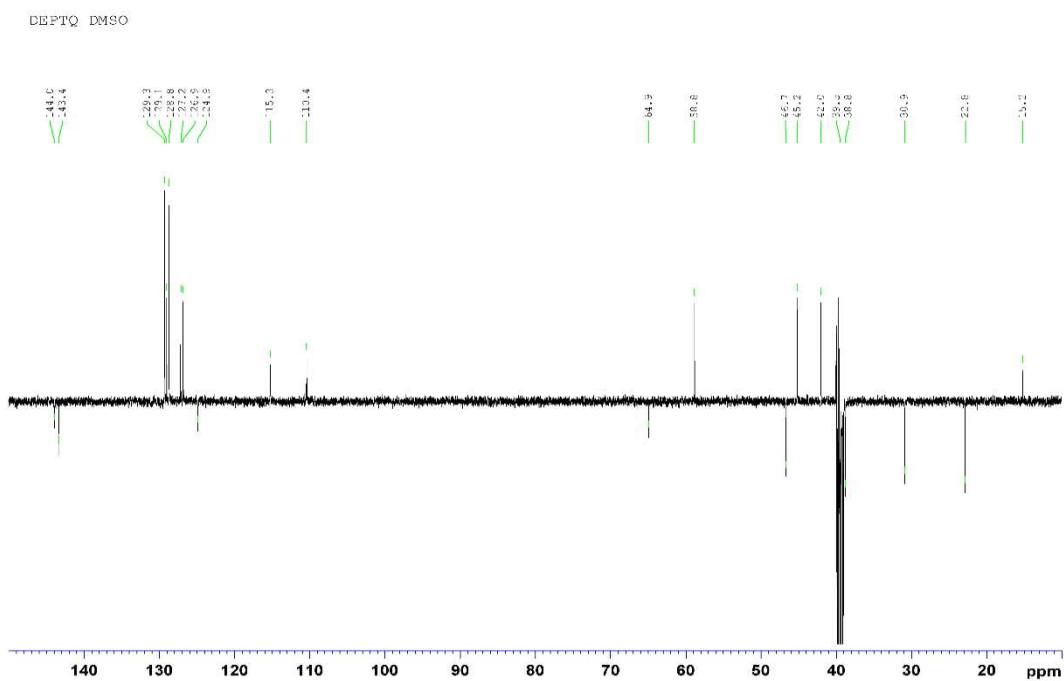
<sup>1</sup>H NMR spectrum of [cis-(±)-1-Methyl-4-phenyl-1,2,3,4-tetrahydroquinolin-3-yl]methanamine dihydrochloride (**12a cis**); 400 MHz.



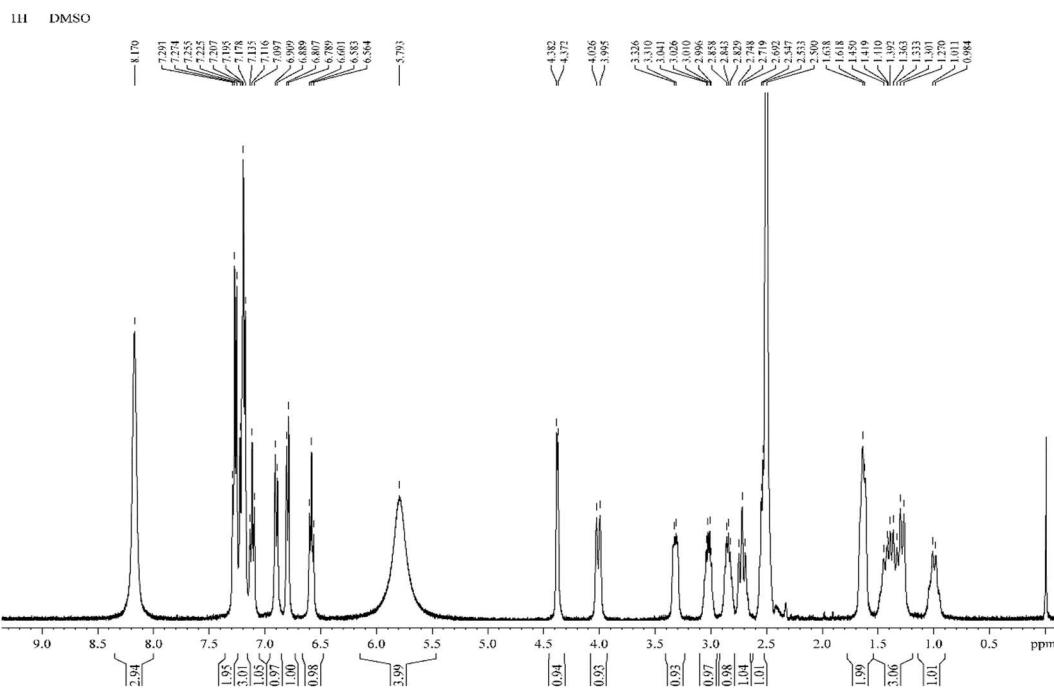
<sup>13</sup>C NMR spectrum of [cis-(±)-1-Methyl-4-phenyl-1,2,3,4-tetrahydroquinolin-3-yl]methanamine dihydrochloride (**12a cis**); 100 MHz.



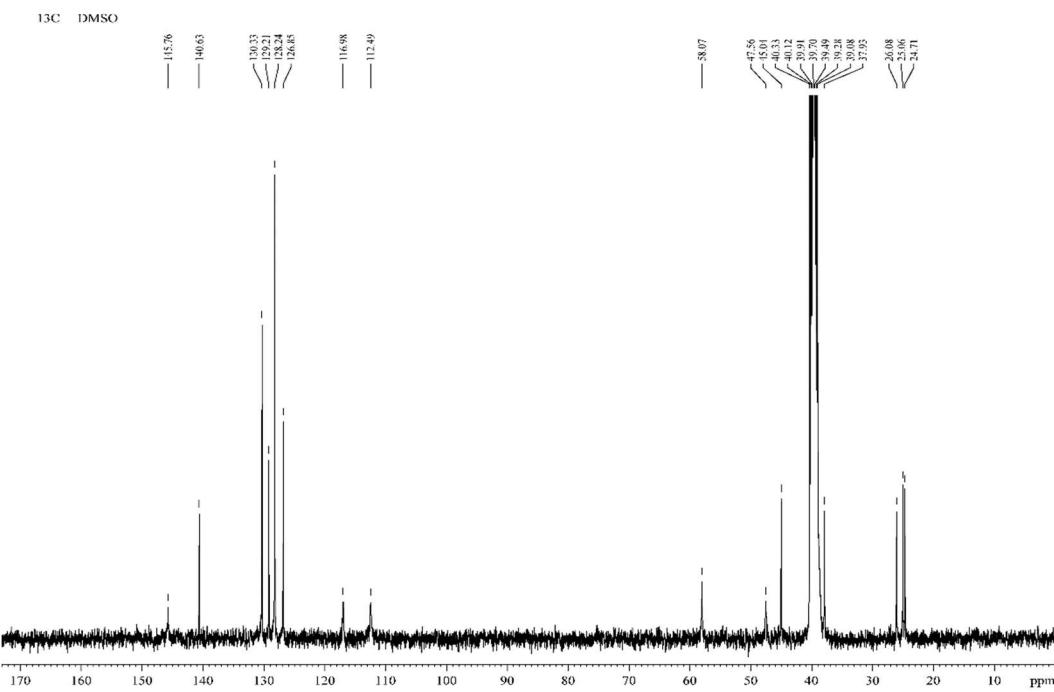
<sup>1</sup>H NMR spectrum of [cis-trans-( $\pm$ )-5-Phenyl-1,2,3,3a,4,5-pyrrolo[1,2-a]quinolin-4-yl]methanamine dihydrochloride (**12b cis-trans**); 600 MHz.



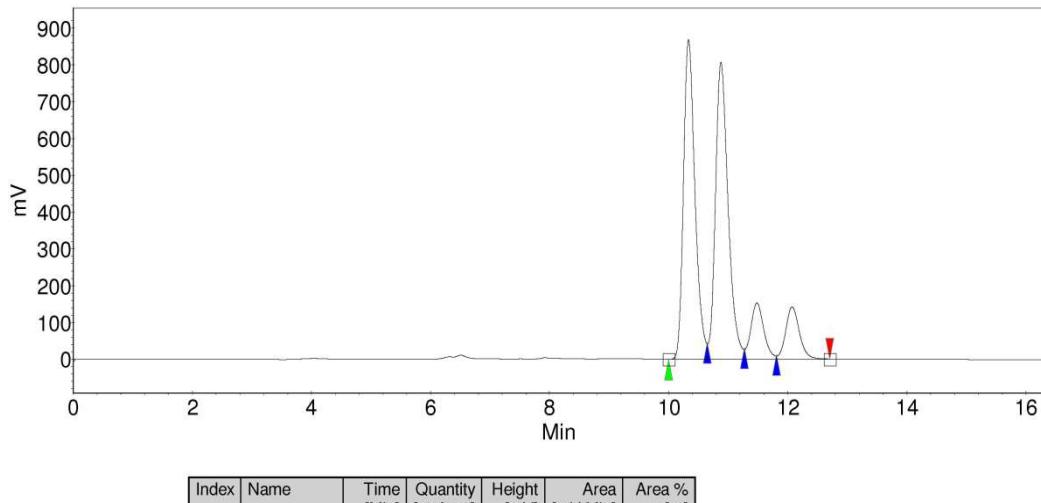
DEPTQ spectrum of [*cis-trans*-( $\pm$ )-5-Phenyl-1,2,3,3a,4,5-pyrrolo[1,2-*a*]quinolin-4-yl]methanamine dihydrochloride (**12b cis-trans**); 125 MHz.



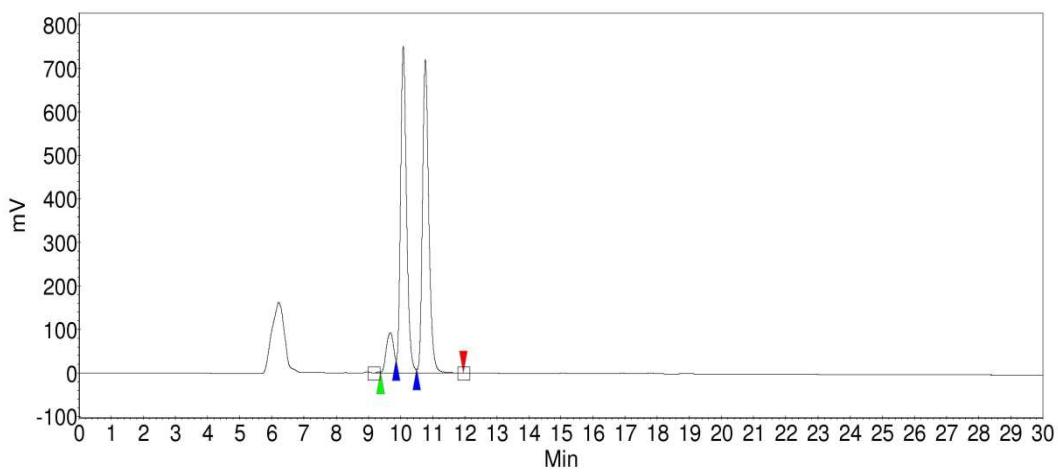
$^1\text{H}$  NMR spectrum of [*cis-cis*-( $\pm$ )-6-Phenyl-1*H*-2,3,4,4a,5,6-hexahydropyrido[1,2-*a*]quinolin-5-yl]methanamine dihydrochloride (**12c cis-cis**); 400 MHz.



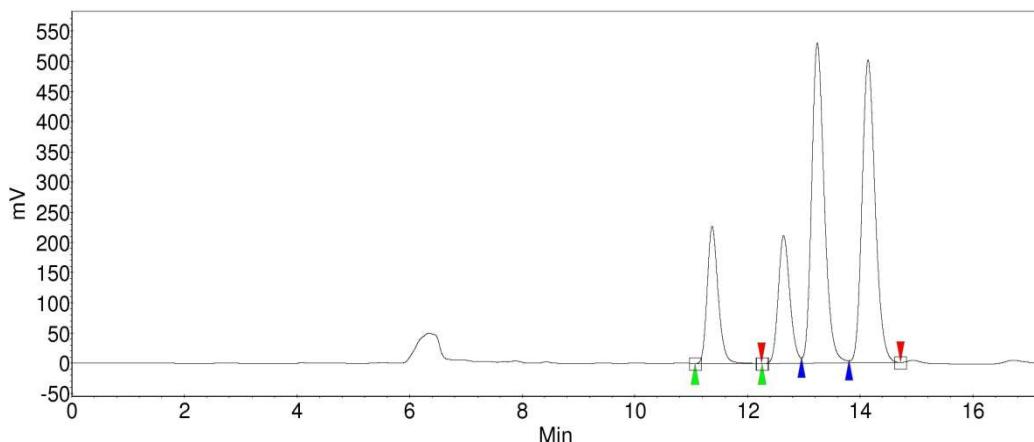
$^{13}\text{C}$  NMR spectrum of [*cis-cis*-( $\pm$ )-6-Phenyl-1*H*-2,3,4,4a,5,6-hexahydropyrido[1,2-*a*]quinolin-5-yl]methanamine dihydrochloride (**12c cis-cis**); 100 MHz.



HPLC chromatogram of *cis/trans*-(±)-5-Methyl-1,2,3,3a,4,5-hexahydropyrrolo[1,2-*a*]quinoline-4,4-dicarbonitrile (**5b cis/trans**) before the separation of the diastereomers; OJ-H, mobile phase ratio 10:90.

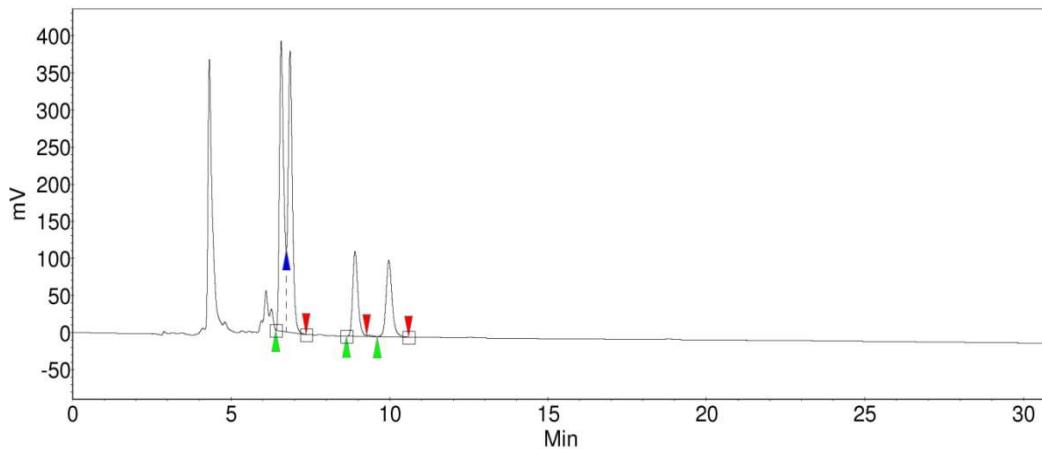


HPLC chromatogram of *cis/trans*-(±)-6-Methyl-1*H*-2,3,4,4*a*,5,6-hexahydropyrido[1,2-*a*]quinoline-5,5-dicarbonitrile (**5c cis/trans**) before the separation of the diastereomers; AD-H, mobile phase ratio 75:25.



Index	Name	Time [Min]	Quantity [% Area]	Height [mV]	Area [mV.Min]	Area % [%]
1	UNKNOWN	11.373	13.58	227.1	50.8	13.584
2	UNKNOWN	12.643	13.51	211.7	50.6	13.512
3	UNKNOWN	13.240	36.69	530.4	137.3	36.694
4	UNKNOWN	14.142	36.21	502.1	135.5	36.210
Total			100.00	1471.3	374.2	100.000

HPLC chromatogram of *cis/trans*-(±)-1,4-Dimethyl-1,2,3,4-tetrahydroquinoline-3-carbonitrile (**7a cis/trans**) before the separation of the diastereomers; OJ-H, mobile phase ratio 50:50.

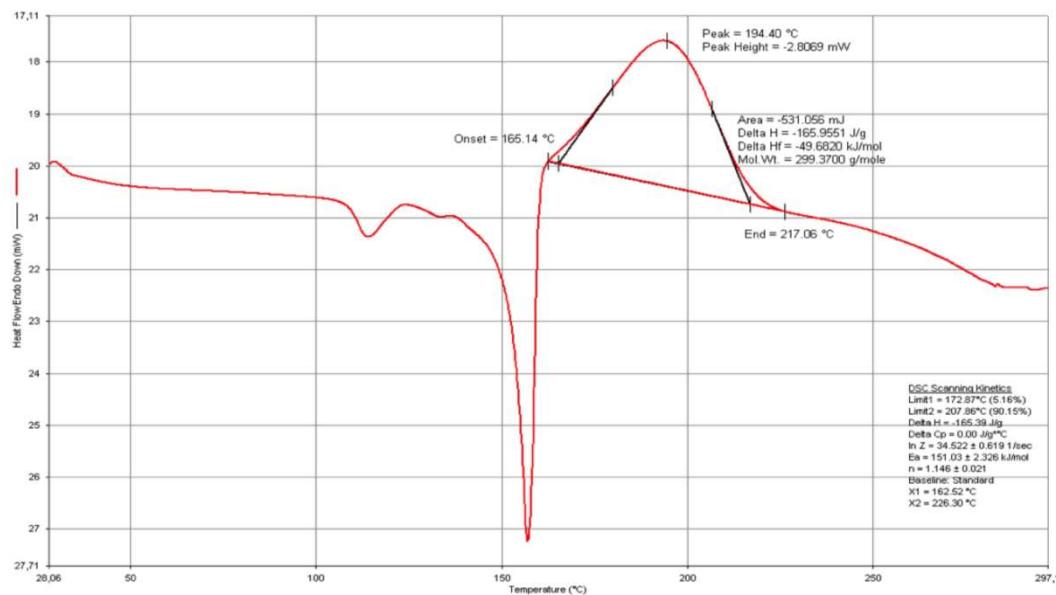


Index	Name	Time [Min]	Quantity [% Area]	Height [mV]	Area [mV.Min]	Area % [%]
1	UNKNOWN	6.580	36.97	391.1	61.7	36.974
2	UNKNOWN	6.862	36.40	379.2	60.8	36.401
3	UNKNOWN	8.910	13.07	114.8	21.8	13.070
4	UNKNOWN	9.975	13.56	103.5	22.6	13.555
Total			100.00	988.6	166.9	100.000

HPLC chromatogram of *cis-cis/cis-trans*-(±)-6-Phenyl-1*H*-2,3,4,4a,5,6-hexahydropyrido[1,2-a]quinoline-5-carbonitrile (**8c cis-cis/cis-trans**) before the separation of the diastereomers; AD-H, mobile phase ratio 50:50.

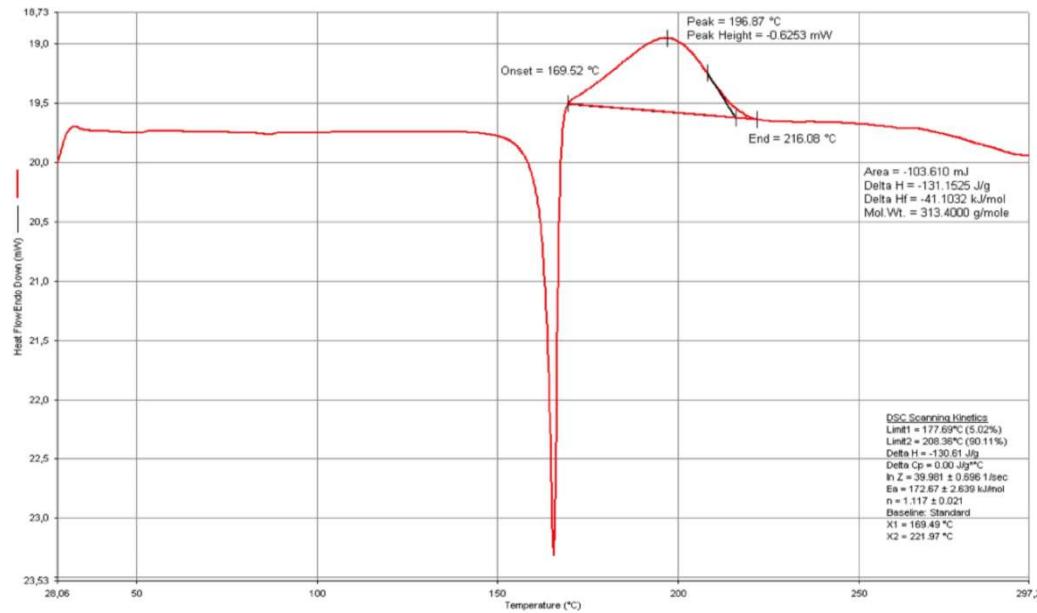
wt: 3.20 mg

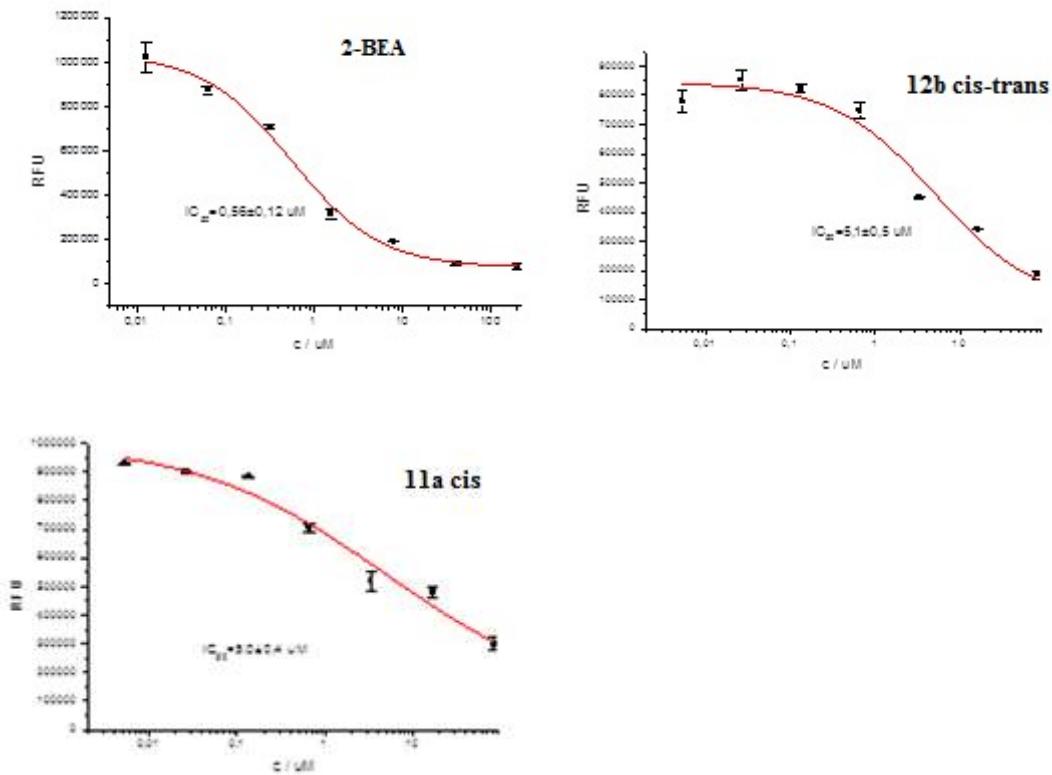
Heat: from 30 to 300°C at 10°C/min

DSC curve of 2-{Phenyl[2''-(pyrrolidin-1''-yl)phenyl]methylidene}propanedinitrile (**4b**)

wt: 0.79 mg

Heat: from 30 to 300°C at 10°C/min

DSC curve of 2-{Phenyl[2''-(piperidin-1''-yl)phenyl]methylidene}propanedinitrile (**4c**)



Dose response curves of 2-BEA, compound **11a cis** and **12b cis-trans**