Supporting Information (NMR Spectra)

Chiral Synthesis of Functionalized Tetrahydropyridines - γ -Aminobutyric Acid Uptake Inhibitor Analogues.

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Ehyl 2-[(acetyloxy)methyl]acrylate (**12**):

(1*S*)-1-Phenylbut-3-en-1-amine (**16a**).

(1*R*)-1-(3,3-Diphenylpropyl)-but-3-enylamine (**16b**).

(1*S*)-1-Cyclohexylbut-3-en-1-amine (**16c**).

Ethyl 2-({[(1*S*)-1-phenylbut-3-enyl]amino}methyl)acrylate (**17a**).

Ethyl 2-{[(1R)-1-(2,2-diphenylpropyl)-but-3-enylamino]-methyl}-acrylate (**17b**).

Ethyl 2-({[(1*S*)-1-cyclohexylbut-3-enyl]amino}methyl)acrylate (**17c**).

Ethyl 2-({methyl[(1*S*)-1-phenylbut-3-enyl]amino} methyl)acrylate (**20a'**).

Ehyl (6*S*)-6-phenyl-1,2,5,6-tetrahydropyridine-3-carboxylate (**21a**).

Ethyl (6*S*)-1-methyl-6-phenyl-1,2,5,6-tetrahydropyridine-3-carboxylate (**21a'**).

1-*tert*-Butyl 3-ethyl (6*S*)-6-phenyl-5,6-dihydropyridine-1,3(2*H*)-dicarboxylate (**21a''**).

Ethyl (6*R*)-6-(3,3-diphenylpropyl)-1,2,5,6-tetrahydropyridine-3-carboxylate (**21b**).

Ethyl (6*S*)-6-cyclohexyl-1,2,5,6-tetrahydropyridine-3-carboxylate (**21c**).

(1*S*,2*S*)-2-Methyl-1-phenylbut-3-en-1-amine (**22a**).

(1*R*,2*S*)-1-(3,3-Diphenyl-propyl)-2-methyl-but-3-enylamine (**22b**).

(1*S*,2*R*)-2-Methyl-1-phenylbut-3-en-1-amine (**23a**).

(1*R*,2*R*)-2-Ethoxy-1-phenylbut-3-en-1-amine (**24a**).

Ethyl 2-([(1*S*,2*S*)-2-methyl-1-phenylbut-3-enyl]amino)methylacrylate (**25a**).

Ethyl 2-({[(1*R*,2*S*)-1-(3,3-diphenylpropyl)-2-methyl-but-3-enyl]amino} methyl)acrylate (**25b**).

Ethyl 2-({[(1*S*,2*R*)-2-methyl-1-phenylbut-3-enyl]amino}methyl)acrylate (**26a**).

Ethyl 2-({[(1*R*,2*R*)-2-ethoxy-1-phenylbut-3-enyl]amino}methyl)acrylate (**27a**).

Ethyl 2-({[(1*S*,2*S*)-2-methyl-1-phenylbut-3-enyl]amino}methyl)acrylate (**28a'**).

Ethyl 2-({[(1*S*,2*R*)-2-methyl-1-phenylbut-3-enyl]amino}methyl)acrylate (**29a'**).

Ethyl (5*R*,6*S*)-1,5-dimethyl-6-phenyl-1,2,5,6-tetrahydropyridine-3-carboxylate (**31a'**).

Ethyl (5*R*,6*R*)-6-(3,3-diphenylpropyl)-5-methyl-1,2,5,6-tetrahydropyridine-3-carboxylate (**31b**).

Ethyl (5*R*,6*S*)-1,5-dimethyl-6-phenyl-1,2,5,6-tetrahydropyridine-3-carboxylate (**32a'**).