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(54) Title: AMINO ACIDS WITH AFFINITY FOR THE ALPHA2DELTA-PROTEIN

(57) Abstract: Certain β -amino acids that bind to the alpha-2-delta (a2S) subunit of a calcium channel are disclosed. These compounds and their pharmaceutically acceptable salts are useful in the treatment of a variety of psychiatric, pain and other disorders.



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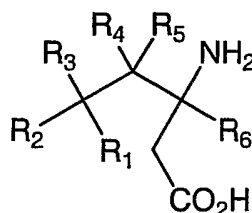
AMINO ACIDS WITH AFFINITY FOR THE $\alpha 2\delta$ -PROTEIN

BACKGROUND OF THE INVENTION

This invention relates to certain β -amino acids that bind to the alpha-2-delta ($\alpha 2\delta$) subunit of a calcium channel. These compounds and their pharmaceutically acceptable salts are useful in the treatment of a variety of psychiatric, pain, and other disorders.

SUMMARY OF THE INVENTION

This invention provides compounds of formula I,



10

and their pharmaceutically acceptable salts, wherein

R₁ is a hydrogen atom or (C₁-C₆)alkyl optionally substituted with from one to five fluorine atoms;

15

R₂ is a hydrogen atom or (C₁-C₆)alkyl optionally substituted with from one to five fluorine atoms; or

R₁ and R₂, together with the carbon to which they are attached, form a three- to six-membered cycloalkyl ring;

20

R₃ is a hydrogen atom, (C₁-C₆)alkyl, (C₃-C₆)cycloalkyl, (C₃-C₆)cycloalkyl-(C₁-C₃)alkyl, phenyl, phenyl-(C₁-C₃)alkyl, pyridyl, or pyridyl-(C₁-C₃)alkyl, wherein the alkyl and cycloalkyl moieties or substituents are optionally substituted with from one to five fluorine atoms, preferably with from zero to three fluorine atoms, and the phenyl and pyridyl substituents and the phenyl and pyridyl moieties of the phenyl-(C₁-C₃)alkyl and the pyridyl-(C₁-C₃)alkyl substituents are optionally substituted with from one to five substituents, preferably with from zero to two substituents, independently

25

selected from chloro, fluoro, amino, nitro, cyano, hydroxy, (C₁-C₃)alkylamino, (C₁-C₃)alkyl optionally substituted with from one to three fluorine atoms, and (C₁-C₃)alkoxy optionally substituted with from one to three fluorine atoms;

5 R₄ is a hydrogen atom or (C₁-C₆)alkyl optionally substituted with from one to five fluorine atoms;

R₅ is a hydrogen atom or (C₁-C₆)alkyl optionally substituted with from one to five fluorine atoms;

R₄ and R₅, together with the carbon to which they are attached, form a three- to six-membered cycloalkyl ring; and

10 R₆ is a hydrogen atom or (C₁-C₆)alkyl;

with the proviso that R₁, R₂, R₃, R₄, R₅, and R₆ are not simultaneously hydrogen atoms.

Specific compounds of formula I include the following compounds and their pharmaceutically acceptable salts:

15 3-Amino-4,5-dimethyl-hexanoic acid;
3-Amino-4,5-dimethyl-heptanoic acid;
3-Amino-4,5-dimethyl-octanoic acid;
3-Amino-4,5-dimethyl-nonanoic acid;
3-Amino-4,5-dimethyl-decanoic acid;
20 3-Amino-4-ethyl-5-methyl-heptanoic acid;
3-Amino-4-ethyl-5-methyl-octanoic acid;
3-Amino-4-ethyl-5-methyl-nonanoic acid;
3-Amino-4-ethyl-5,6-dimethyl-heptanoic acid;
3-Amino-4-ethyl-5,7-dimethyl-octanoic acid;
25 3-Amino-4-ethyl-5,8-dimethyl-nonanoic acid;
3-Amino-5-ethyl-4-methyl-octanoic acid;
3-Amino-5-ethyl-4-methyl-nonanoic acid;
3-Amino-4,5-diethyl-heptanoic acid;
3-Amino-4,5-diethyl-octanoic acid;
30 3-Amino-4,5-diethyl-nonanoic acid;
3-Amino-5-ethyl-4,7-dimethyl-octanoic acid;
3-Amino-5-ethyl-4,8-dimethyl-nonanoic acid;

- 3-Amino-4,5-diethyl-6-methyl-heptanoic acid;
3-Amino-4,5-diethyl-7-methyl-octanoic acid;
3-Amino-4,5-diethyl-8-methyl-nonanoic acid;
3-Amino-4,5,6-trimethyl-heptanoic acid;
5 3-Amino-4,5,7-trimethyl-octanoic acid;
3-Amino-4,5,8-trimethyl-nonanoic acid;
3-Amino-4-ethyl-5-methyl-hexanoic acid;
3-Amino-5-ethyl-4-methyl-octanoic acid;
3-Amino-5-ethyl-4-methyl-heptanoic acid;
10 3-Amino-4-methyl-5-propyl-octanoic acid;
3-Amino-4-methyl-6-ethyl-octanoic acid;
3-Amino-4-methyl-6-ethyl-nonanoic acid;
3-Amino-4,6-diethyl-octanoic acid;
3-Amino-4,6-diethyl-nonanoic acid;
15 3-Amino-6-cyclopentyl-4,5-dimethyl-hexanoic acid;
3-Amino-7-cyclopentyl-4,5-dimethyl-heptanoic acid;
3-Amino-5-ethyl-4,6-dimethyl-heptanoic acid;
3-Amino-5-ethyl-4,7-dimethyl-octanoic acid;
3-Amino-5-ethyl-4,8-dimethyl-nonanoic acid;
20 (3R,4R)-3-Amino-4,5-dimethyl-hexanoic acid;
(3R,4R,5R)-3-Amino-4,5-dimethyl-heptanoic acid;
(3R,4R,5R)-3-Amino-4,5-dimethyl-octanoic acid;
(3R,4R,5R)-3-Amino-4,5-dimethyl-nonanoic acid;
(3R,4R,5R)-3-Amino-4,5-dimethyl-decanoic acid;
25 3-Amino-5-cyclopropyl-4-ethyl-hexanoic acid;
3-Amino-6-cyclopropyl-4-ethyl-5-methyl-hexanoic acid;
3-Amino-5-cyclobutyl-4-ethyl-hexanoic acid;
3-Amino-6-cyclobutyl-4-ethyl-5-methyl-hexanoic acid;
3-Amino-5-cyclopentyl-4-methyl-hexanoic acid;
30 3-Amino-6-cyclopentyl-4-ethyl-5-methyl-hexanoic acid;
3-Amino-5-cyclohexyl-4-ethyl-hexanoic acid;
3-Amino-6-cyclohexyl-4-ethyl-5-methyl-hexanoic acid;

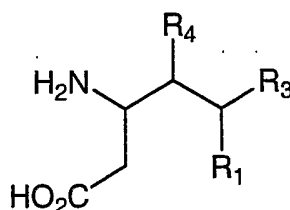
- 3-Amino-5-cyclopropyl-4-methyl-hexanoic acid;
3-Amino-6-cyclopropyl-4,5-dimethyl-hexanoic acid;
3-Amino-5-cyclobutyl-4-methyl-hexanoic acid;
3-Amino-6-cyclobutyl-4,5-dimethyl-hexanoic acid;
5 3-Amino-5-cyclopentyl-4-methyl-hexanoic acid;
3-Amino-6-cyclopentyl-4,5-dimethyl-hexanoic acid;
3-Amino-5-cyclohexyl-4-methyl-hexanoic acid;
3-Amino-6-cyclohexyl-4,5-dimethyl-hexanoic acid;
3-Amino-8-cyclohexyl-4,5-dimethyl-octanoic acid;
10 3-Amino-8-cyclohexyl-4,5-dimethyl-octanoic acid;
3-Amino-4,6-dimethyl-heptanoic acid;
3-Amino-4,6-dimethyl-octanoic acid;
3-Amino-4,6-dimethyl-nonanoic acid;
3-Amino-4,6-dimethyl-decanoic acid;
15 3-Amino-4,6,7-trimethyl-octanoic acid;
3-Amino-4,6,8-trimethyl-nonanoic acid;
3-Amino-4,6,9-trimethyl-decanoic acid;
3-Amino-6-cyclopropyl-4-methyl-heptanoic acid;
3-Amino-6-cyclobutyl-4-methyl-heptanoic acid;
20 3-Amino-6-cyclopentyl-4-methyl-heptanoic acid;
3-Amino-6-cyclohexyl-4-methyl-heptanoic acid;
3-Amino-7-cyclopropyl-4,6-dimethyl-heptanoic acid;
3-Amino-7-cyclobutyl-4,6-dimethyl-heptanoic acid;
3-Amino-7-cyclopentyl-4,6-dimethyl-heptanoic acid;
25 3-Amino-7-cyclohexyl-4,6-dimethyl-heptanoic acid;
3-Amino-8-cyclopropyl-4,6-dimethyl-octanoic acid;
3-Amino-8-cyclobutyl-4,6-dimethyl-octanoic acid;
3-Amino-8-cyclopentyl-4,6-dimethyl-octanoic acid;
3-Amino-8-cyclohexyl-4,6-dimethyl-octanoic acid;
30 3-Amino-6-(3-chloro-phenyl)-4-methyl-heptanoic acid;
3-Amino-6-(3,4-dichloro-phenyl)-4-methyl-heptanoic acid;
3-Amino-4-methyl-6-(3-trifluoromethyl-phenyl)-heptanoic acid;

- 3-Amino-4-methyl-6-(4-trifluoromethyl-phenyl)-heptanoic acid;
3-Amino-7-(3-chloro-phenyl)-4,6-dimethyl-heptanoic acid;
3-Amino-7-(3,4-dichloro-phenyl)-4,6-dimethyl-heptanoic acid;
3-Amino-4,6-dimethyl-7-(3-trifluoromethyl-phenyl)-heptanoic acid;
5 3-Amino-4,6-dimethyl-7-(4-trifluoromethyl-phenyl)-heptanoic acid;
3-Amino-8-(3-chloro-phenyl)-4,6-dimethyl-octanoic acid;
3-Amino-8-(3,4-dichloro-phenyl)-4,6-dimethyl-octanoic acid;
3-Amino-4,6-dimethyl-8-(3-trifluoromethyl-phenyl)-octanoic acid;
3-Amino-4,6-dimethyl-8-(4-trifluoromethyl-phenyl)-octanoic acid;
10 3-Amino-4-ethyl-6-methyl-octanoic acid;
3-Amino-4-ethyl-6-methyl-nonanoic acid;
3-Amino-4-ethyl-6-methyl-decanoic acid;
3-Amino-4-ethyl-6,7-dimethyl-octanoic acid;
3-Amino-4-ethyl-6,8-dimethyl-nonanoic acid;
15 3-Amino-4-ethyl-6,9-dimethyl-decanoic acid;
3-Amino-6-cyclopropyl-4-ethyl-heptanoic acid;
3-Amino-6-cyclobutyl-4-ethyl-heptanoic acid;
3-Amino-6-cyclopentyl-4-ethyl-heptanoic acid;
3-Amino-6-cyclohexyl-4-ethyl-heptanoic acid;
20 3-Amino-7-cyclopropyl-4-ethyl-6-methyl-heptanoic acid;
3-Amino-7-cyclobutyl-4-ethyl-6-methyl-heptanoic acid;
3-Amino-7-cyclopentyl-4-ethyl-6-methyl-heptanoic acid;
3-Amino-7-cyclohexyl-4-ethyl-6-methyl-heptanoic acid;
3-Amino-8-cyclopropyl-4-ethyl-6-methyl-octanoic acid;
25 3-Amino-8-cyclobutyl-4-ethyl-6-methyl-octanoic acid;
3-Amino-8-cyclopentyl-4-ethyl-6-methyl-octanoic acid;
3-Amino-8-cyclohexyl-4-ethyl-6-methyl-octanoic acid;
3-Amino-6-(3-chloro-phenyl)-4-ethyl-heptanoic acid;
3-Amino-6-(3,4-dichloro-phenyl)-4-ethyl-heptanoic acid;
30 3-Amino-4-ethyl-6-(3-trifluoromethyl-phenyl)-heptanoic acid;
3-Amino-4-ethyl-6-(4-trifluoromethyl-phenyl)-heptanoic acid;
3-Amino-7-(3-chloro-phenyl)-4-ethyl-6-methyl-heptanoic acid;

- 3-Amino-7-(3,4-dichloro-phenyl)-4-ethyl-6-methyl-heptanoic acid;
3-Amino-4-ethyl-6-methyl-7-(3-trifluoromethyl-phenyl)-heptanoic acid;
3-Amino-4-ethyl-6-methyl-7-(4-trifluoromethyl-phenyl)-heptanoic acid;
3-Amino-8-(3-chloro-phenyl)-4-ethyl-6-methyl-octanoic acid;
5 3-Amino-8-(3,4-dichloro-phenyl)-4-ethyl-6-methyl-octanoic acid;
3-Amino-4-ethyl-6-methyl-8-(3-trifluoromethyl-phenyl)-octanoic acid;
3-Amino-4-ethyl-6-methyl-8-(4-trifluoromethyl-phenyl)-octanoic acid;
3-Amino-4-methyl-heptanoic acid;
3-Amino-4,6-dimethyl-heptanoic acid;
10 3-Amino-4,7-dimethyl-octanoic acid;
3-Amino-4,8-dimethyl-nonanoic acid;
3-Amino-4-methyl-hexanoic acid;
3-Amino-4-methyl-heptanoic acid;
3-Amino-4-methyl-octanoic acid;
15 3-Amino-4-methyl-nonanoic acid;
3-Amino-5-cyclopropyl-4-methyl-pentanoic acid;
3-Amino-6-cyclopropyl-4-methyl-hexanoic acid;
3-Amino-7-cyclopropyl-4-methyl-heptanoic acid;
3-Amino-5-cyclobutyl-4-methyl-pentanoic acid;
20 3-Amino-6-cyclobutyl-4-methyl-hexanoic acid;
3-Amino-7-cyclobutyl-4-methyl-heptanoic acid;
3-Amino-5-cyclopentyl-4-methyl-pentanoic acid;
3-Amino-6-cyclopentyl-4-methyl-hexanoic acid;
3-Amino-7-cyclopentyl-4-methyl-heptanoic acid;
25 3-Amino-5-cyclohexyl-4-methyl-pentanoic acid;
3-Amino-6-cyclohexyl-4-methyl-hexanoic acid;
3-Amino-7-cyclohexyl-4-methyl-heptanoic acid;
3-Amino-5-cyclopropyl-4-ethyl-pentanoic acid;
3-Amino-6-cyclopropyl-4-ethyl-hexanoic acid;
30 3-Amino-7-cyclopropyl-4-ethyl-heptanoic acid;
3-Amino-5-cyclobutyl-4-ethyl-pentanoic acid;
3-Amino-6-cyclobutyl-4-ethyl-hexanoic acid;

- 3-Amino-7-cyclobutyl-4-ethyl-heptanoic acid;
3-Amino-5-cyclopentyl-4-ethyl-pentanoic acid;
3-Amino-6-cyclopentyl-4-ethyl-hexanoic acid;
3-Amino-7-cyclopentyl-4-ethyl-heptanoic acid;
5 3-Amino-5-cyclohexyl-4-ethyl-pentanoic acid;
3-Amino-6-cyclohexyl-4-ethyl-hexanoic acid;
3-Amino-7-cyclohexyl-4-ethyl-heptanoic acid;
3-Amino-4,4,5-trimethyl-heptanoic acid;
3-Amino-4,4,5-trimethyl-octanoic acid;
10 3-Amino-4,4,5-trimethyl-hexanoic acid;
3-Amino-4,5,5-trimethyl-heptanoic acid;
3-Amino-4,5,5-trimethyl-octanoic acid; and
3-Amino-4,5,5-trimethyl-hexanoic acid.
- Other compounds of formula I include the following compounds, and
15 their pharmaceutically acceptable salts:
- 3-Amino-4-methyl-5-phenyl-pentanoic acid;
3-Amino-4-methyl-6-phenyl-hexanoic acid;
3-Amino-4-methyl-7-phenyl-heptanoic acid;
3-Amino-5-(2-chloro-phenyl)-4-methyl-pentanoic acid;
20 3-Amino-5-(3-chloro-phenyl)-4-methyl-pentanoic acid;
3-Amino-5-(4-chloro-phenyl)-4-methyl-pentanoic acid;
3-Amino-5-(2,4-dichloro-phenyl)-4-methyl-pentanoic acid;
3-Amino-5-(3,4-dichloro-phenyl)-4-methyl-pentanoic acid;
3-Amino-4-(2-chloro-benzyl)-hexanoic acid;
25 3-Amino-4-(3-chloro-benzyl)-hexanoic acid;
3-Amino-4-(4-chloro-benzyl)-hexanoic acid;
3-Amino-4-(2,4-dichloro-benzyl)-hexanoic acid;
3-Amino-4-(3,4-dichloro-benzyl)-hexanoic acid;
3-Amino-6-(2-chloro-phenyl)-4-methyl-hexanoic acid;
30 3-Amino-6-(3-chloro-phenyl)-4-methyl-hexanoic acid;
3-Amino-6-(4-chloro-phenyl)-4-methyl-hexanoic acid;
3-Amino-6-(2,4-dichloro-phenyl)-4-methyl-hexanoic acid;

- 3-Amino-6-(3,4-dichloro-phenyl)-4-methyl-hexanoic acid;
 3-Amino-6-(2-chloro-phenyl)-4-ethyl-hexanoic acid;
 3-Amino-6-(3-chloro-phenyl)-4-ethyl-hexanoic acid;
 3-Amino-6-(4-chloro-phenyl)-4-ethyl-hexanoic acid;
 5 3-Amino-6-(2,4-dichloro-phenyl)-4-ethyl-hexanoic acid;
 3-Amino-6-(3,4-dichloro-phenyl)-4-ethyl-hexanoic acid;
 3-Amino-7-(2-chloro-phenyl)-4-methyl-heptanoic acid;
 3-Amino-7-(3-chloro-phenyl)-4-methyl-heptanoic acid;
 3-Amino-7-(4-chloro-phenyl)-4-methyl-heptanoic acid;
 10 3-Amino-7-(2,4-dichloro-phenyl)-4-methyl-heptanoic acid;
 3-Amino-7-(3,4-dichloro-phenyl)-4-methyl-heptanoic acid;
 3-Amino-7-(2-chloro-phenyl)-4-ethyl-heptanoic acid;
 3-Amino-7-(3-chloro-phenyl)-4-ethyl-heptanoic acid;
 3-Amino-7-(4-chloro-phenyl)-4-ethyl-heptanoic acid;
 15 3-Amino-7-(2,4-dichloro-phenyl)-4-ethyl-heptanoic acid; and
 3-Amino-7-(3,4-dichloro-phenyl)-4-ethyl-heptanoic acid.
 This invention also provides compounds of formula II



II

- 20 and their pharmaceutically acceptable salts, wherein R_1 , R_3 , and R_4 are as defined above in formula I, with the proviso that R_1 is not a hydrogen atom.

Specific compounds of formula II include the following compounds and their pharmaceutically acceptable salts:

- 3-Amino-4,5-dimethyl-hexanoic acid;
 25 3-Amino-4,5-dimethyl-heptanoic acid;
 3-Amino-4,5-dimethyl-octanoic acid;
 3-Amino-4,5-dimethyl-nonanoic acid;
 3-Amino-4-ethyl-5-methyl-heptanoic acid;

- 3-Amino-4-ethyl-5-methyl-octanoic acid;
3-Amino-4-ethyl-5-methyl-nonanoic acid;
3-Amino-4-ethyl-5,6-dimethyl-heptanoic acid;
3-Amino-4-ethyl-5,7-dimethyl-octanoic acid;
5 3-Amino-4-ethyl-5,8-dimethyl-nonanoic acid;
3-Amino-5-ethyl-4-methyl-octanoic acid;
3-Amino-5-ethyl-4-methyl-nonanoic acid;
3-Amino-4,5-diethyl-heptanoic acid;
3-Amino-4,5-diethyl-octanoic acid;
10 3-Amino-4,5-diethyl-nonanoic acid;
3-Amino-5-ethyl-4,7-dimethyl-octanoic acid;
3-Amino-5-ethyl-4,8-dimethyl-nonanoic acid;
3-Amino-4,5-diethyl-6-methyl-heptanoic acid;
3-Amino-4,5-diethyl-7-methyl-octanoic acid;
15 3-Amino-4,5-diethyl-8-methyl-nonanoic acid;
3-Amino-4,5,6-trimethyl-heptanoic acid;
3-Amino-4,5,7-trimethyl-octanoic acid;
3-Amino-4,5,8-trimethyl-nonanoic acid;
3-Amino-4-ethyl-5-methyl-hexanoic acid;
20 3-Amino-5-ethyl-4-methyl-octanoic acid;
3-Amino-5-ethyl-4-methyl-heptanoic acid;
3-Amino-4-methyl-5-propyl-octanoic acid;
3-Amino-6-cyclopentyl-4,5-dimethyl-hexanoic acid;
3-Amino-7-cyclopentyl-4,5-dimethyl-heptanoic acid;
25 3-Amino-5-ethyl-4,6-dimethyl-heptanoic acid;
3-Amino-5-ethyl-4,7-dimethyl-octanoic acid;
3-Amino-5-ethyl-4,8-dimethyl-nonanoic acid;
(3R,4R)-3-Amino-4,5-dimethyl-hexanoic acid;
(3R,4R,5R)-3-Amino-4,5-dimethyl-heptanoic acid;
30 (3R,4R,5R)-3-Amino-4,5-dimethyl-octanoic acid;
(3R,4R,5R)-3-Amino-4,5-dimethyl-nonanoic acid;
(3R,4R,5R)-3-Amino-4,5-decanoic acid;

- 3-Amino-5-cyclopropyl-4-ethyl-hexanoic acid;
 3-Amino-6-cyclopropyl-4-ethyl-5-methyl-hexanoic acid;
 3-Amino-5-cyclobutyl-4-ethyl-hexanoic acid;
 3-Amino-6-cyclobutyl-4-ethyl-5-methyl-hexanoic acid;
 5 3-Amino-5-cyclopentyl-4-methyl-hexanoic acid;
 3-Amino-6-cyclopentyl-4-ethyl-5-methyl-hexanoic acid;
 3-Amino-5-cyclohexyl-4-ethyl-hexanoic acid;
 3-Amino-6-cyclohexyl-4-ethyl-5-methyl-hexanoic acid;
 3-Amino-5-cyclopropyl-4-methyl-hexanoic acid;
 10 3-Amino-6-cyclopropyl-4,5-dimethyl-hexanoic acid;
 3-Amino-5-cyclobutyl-4-methyl-hexanoic acid;
 3-Amino-6-cyclobutyl-4,5-dimethyl-hexanoic acid;
 3-Amino-5-cyclopentyl-4-methyl-hexanoic acid;
 3-Amino-6-cyclopentyl-4,5-dimethyl-hexanoic acid;
 15 3-Amino-5-cyclohexyl-4-methyl-hexanoic acid;
 3-Amino-6-cyclohexyl-4,5-dimethyl-hexanoic acid;
 3-Amino-8-cyclohexyl-4,5-dimethyl-octanoic acid and
 3-Amino-8-cyclohexyl-4,5-dimethyl-octanoic acid.

This invention also provides compounds of formula III



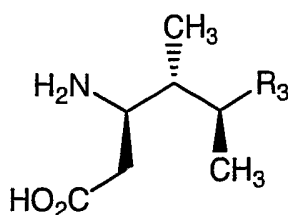
and their pharmaceutically acceptable salts, wherein R_1 and R_3 are as defined above in formula I, with the proviso that R_1 and R_3 are not hydrogen atoms.

25 Specific compounds of formula III include the following compounds and their pharmaceutically acceptable salts:

- 3-Amino-4,5-dimethyl-hexanoic acid;
 3-Amino-4,5-dimethyl-heptanoic acid;
 3-Amino-4,5-dimethyl-octanoic acid;

- 3-Amino-4,5-dimethyl-nonanoic acid;
3-Amino-4,5,6-trimethyl-heptanoic acid;
3-Amino-4,5,7-trimethyl-octanoic acid;
3-Amino-4,5,8-trimethyl-nonanoic acid;
5 3-Amino-4-methyl-5-propyl-octanoic acid;
3-Amino-6-cyclopentyl-4,5-dimethyl-hexanoic acid;
3-Amino-7-cyclopentyl-4,5-dimethyl-heptanoic acid;
3-Amino-5-ethyl-4,6-dimethyl-heptanoic acid;
3-Amino-5-ethyl-4,7-dimethyl-octanoic acid;
10 3-Amino-5-ethyl-4,8-dimethyl-nonanoic acid;
(3R,4R)-3-Amino-4,5-dimethyl-hexanoic acid;
(3R,4R,5R)-3-Amino-4,5-dimethyl-heptanoic acid;
(3R,4R,5R)-3-Amino-4,5-dimethyl-octanoic acid;
(3R,4R,5R)-3-Amino-4,5-dimethyl-nonanoic acid;
15 (3R,4R,5R)-3-Amino-4,5-dimethyl-decanoic acid;
3-Amino-5-cyclopentyl-4-methyl-hexanoic acid;
3-Amino-5-cyclopropyl-4-methyl-hexanoic acid;
3-Amino-6-cyclopropyl-4,5-dimethyl-hexanoic acid;
3-Amino-5-cyclobutyl-4-methyl-hexanoic acid;
20 3-Amino-6-cyclobutyl-4,5-dimethyl-hexanoic acid;
3-Amino-5-cyclopentyl-4-methyl-hexanoic acid;
3-Amino-6-cyclopentyl-4,5-dimethyl-hexanoic acid;
3-Amino-5-cyclohexyl-4-methyl-hexanoic acid;
3-Amino-6-cyclohexyl-4,5-dimethyl-hexanoic acid;
25 3-Amino-8-cyclohexyl-4,5-dimethyl-octanoic acid and
3-Amino-8-cyclohexyl-4,5-dimethyl-octanoic acid.

This invention also provides compounds of formula IV



IV

and their pharmaceutically acceptable salts, wherein R_3 is as defined above in formula I, with the proviso that R_3 is not a hydrogen atom.

Specific compounds of formula IV include the following compounds and their pharmaceutically acceptable salts:

(3R,4R)-3-Amino-4,5-dimethyl-hexanoic acid;

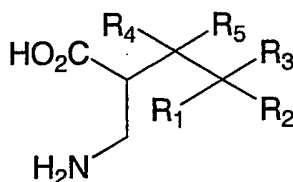
(3R,4R,5R)-3-Amino-4,5-dimethyl-heptanoic acid;

(3R,4R,5R)-3-Amino-4,5-dimethyl-octanoic acid;

(3R,4R,5R)-3-Amino-4,5-dimethyl-nonanoic acid and

(3R,4R,5R)-3-Amino-4,5-dimethyl-decanoic acid.

This invention also relates to compounds of formula V



V

and their pharmaceutically acceptable salts, wherein R_1 , R_2 , R_3 , R_4 , and R_5 are as defined above in formula I, with the proviso that R_1 , R_2 , R_3 , R_4 , and R_5 are not simultaneously hydrogen atoms.

Specific compounds of formula V include the following compounds and their pharmaceutically acceptable salts:

2-Aminomethyl-4-(2-fluoro-phenyl)-pentanoic acid;

2-Aminomethyl-4-(3-fluoro-phenyl)-pentanoic acid;

2-Aminomethyl-4-(4-fluoro-phenyl)-pentanoic acid;

2-Aminomethyl-4-(2,3-difluoro-phenyl)-pentanoic acid;

- 2-Aminomethyl-4-(2,4-difluoro-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2,5-difluoro-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2,6-difluoro-phenyl)-pentanoic acid;
2-Aminomethyl-4-(3,4-difluoro-phenyl)-pentanoic acid;
5 2-Aminomethyl-4-(3,5-difluoro-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2,3,4-trifluoro-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2,3,5-trifluoro-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2,3,6-trifluoro-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2,4,6-trifluoro-phenyl)-pentanoic acid;
10 2-Aminomethyl-4-(2,3,4,5-tetrafluoro-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2,3,4,6-tetrafluoro-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2,3,5,6-tetrafluoro-phenyl)-pentanoic acid;
2-Aminomethyl-4-pentafluorophenyl-pentanoic acid;
2-Aminomethyl-4-(2-fluoro-phenyl)-hexanoic acid;
15 2-Aminomethyl-4-(3-fluoro-phenyl)-hexanoic acid;
2-Aminomethyl-4-(4-fluoro-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,3-difluoro-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,4-difluoro-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,5-difluoro-phenyl)-hexanoic acid;
20 2-Aminomethyl-4-(2,6-difluoro-phenyl)-hexanoic acid;
2-Aminomethyl-4-(3,4-difluoro-phenyl)-hexanoic acid;
2-Aminomethyl-4-(3,5-difluoro-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,3,4-trifluoro-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,3,5-trifluoro-phenyl)-hexanoic acid;
25 2-Aminomethyl-4-(2,3,6-trifluoro-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,4,6-trifluoro-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,3,4,5-tetrafluoro-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,3,4,6-tetrafluoro-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,3,5,6-tetrafluoro-phenyl)-hexanoic acid;
30 2-Aminomethyl-4-pentafluorophenyl-hexanoic acid;
2-Aminomethyl-5-(2-fluoro-phenyl)-4-methyl-pentanoic acid;
2-Aminomethyl-5-(3-fluoro-phenyl)-4-methyl-pentanoic acid;

- 2-Aminomethyl-5-(4-fluoro-phenyl)-4-methyl-pentanoic acid;
2-Aminomethyl-5-(2,3-difluoro-phenyl)-4-methyl-pentanoic acid;
2-Aminomethyl-5-(2,4-difluoro-phenyl)-4-methyl-pentanoic acid;
2-Aminomethyl-5-(2,5-difluoro-phenyl)-4-methyl-pentanoic acid;
5 2-Aminomethyl-5-(2,6-difluoro-phenyl)-4-methyl-pentanoic acid;
2-Aminomethyl-5-(3,4-difluoro-phenyl)-4-methyl-pentanoic acid;
2-Aminomethyl-5-(3,5-difluoro-phenyl)-4-methyl-pentanoic acid;
2-Aminomethyl-4-methyl-5-(2,3,4-trifluoro-phenyl)-pentanoic acid;
2-Aminomethyl-4-methyl-5-(2,3,5-trifluoro-phenyl)-pentanoic acid;
10 2-Aminomethyl-4-methyl-5-(2,3,6-trifluoro-phenyl)-pentanoic acid;
2-Aminomethyl-4-methyl-5-(2,4,6-trifluoro-phenyl)-pentanoic acid;
2-Aminomethyl-4-methyl-5-(2,3,4,5-tetrafluoro-phenyl)-pentanoic acid;
2-Aminomethyl-4-methyl-5-(2,3,4,6-tetrafluoro-phenyl)-pentanoic acid;
2-Aminomethyl-4-methyl-5-(2,3,5,6-tetrafluoro-phenyl)-pentanoic acid;
15 2-Aminomethyl-4-methyl-5-pentafluorophenyl-pentanoic acid;
2-Aminomethyl-5-(2-fluoro-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-5-(3-fluoro-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-5-(4-fluoro-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-5-(2,3-difluoro-phenyl)-4-methyl-hexanoic acid;
20 2-Aminomethyl-5-(2,4-difluoro-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-5-(2,5-difluoro-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-5-(2,6-difluoro-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-5-(3,4-difluoro-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-5-(3,5-difluoro-phenyl)-4-methyl-hexanoic acid;
25 2-Aminomethyl-4-methyl-5-(2,3,4-trifluoro-phenyl)-hexanoic acid;
2-Aminomethyl-4-methyl-5-(2,3,5-trifluoro-phenyl)-hexanoic acid;
2-Aminomethyl-4-methyl-5-(2,3,6-trifluoro-phenyl)-hexanoic acid;
2-Aminomethyl-4-methyl-5-(2,4,6-trifluoro-phenyl)-hexanoic acid;
2-Aminomethyl-4-methyl-5-(2,3,4,5-tetrafluoro-phenyl)-hexanoic acid;
30 2-Aminomethyl-4-methyl-5-(2,3,4,6-tetrafluoro-phenyl)-hexanoic acid;
2-Aminomethyl-4-methyl-5-(2,3,5,6-tetrafluoro-phenyl)-hexanoic acid;
2-Aminomethyl-4-methyl-5-pentafluorophenyl-hexanoic acid;

- 2-Aminomethyl-6-(2-fluoro-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-6-(3-fluoro-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-6-(4-fluoro-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-6-(2,3-difluoro-phenyl)-4-methyl-hexanoic acid;
5 2-Aminomethyl-6-(2,4-difluoro-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-6-(2,5-difluoro-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-6-(2,6-difluoro-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-6-(3,4-difluoro-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-6-(3,5-difluoro-phenyl)-4-methyl-hexanoic acid;
10 2-Aminomethyl-4-methyl-6-(2,3,4-trifluoro-phenyl)-hexanoic acid;
2-Aminomethyl-4-methyl-6-(2,3,5-trifluoro-phenyl)-hexanoic acid;
2-Aminomethyl-4-methyl-6-(2,3,6-trifluoro-phenyl)-hexanoic acid;
2-Aminomethyl-4-methyl-6-(2,4,6-trifluoro-phenyl)-hexanoic acid;
2-Aminomethyl-4-methyl-6-(2,3,4,5-tetrafluoro-phenyl)-hexanoic acid;
15 2-Aminomethyl-4-methyl-6-(2,3,4,6-tetrafluoro-phenyl)-hexanoic acid;
2-Aminomethyl-4-methyl-6-(2,3,5,6-tetrafluoro-phenyl)-hexanoic acid;
2-Aminomethyl-4-methyl-6-pentafluorophenyl-hexanoic acid;
2-Aminomethyl-5-(2-fluoro-phenyl)-4-ethyl-pentanoic acid;
2-Aminomethyl-5-(3-fluoro-phenyl)-4-ethyl-pentanoic acid;
20 2-Aminomethyl-5-(4-fluoro-phenyl)-4-ethyl-pentanoic acid;
2-Aminomethyl-5-(2,3-difluoro-phenyl)-4-ethyl-pentanoic acid;
2-Aminomethyl-5-(2,4-difluoro-phenyl)-4-ethyl-pentanoic acid;
2-Aminomethyl-5-(2,5-difluoro-phenyl)-4-ethyl-pentanoic acid;
2-Aminomethyl-5-(2,6-difluoro-phenyl)-4-ethyl-pentanoic acid;
25 2-Aminomethyl-5-(3,4-difluoro-phenyl)-4-ethyl-pentanoic acid;
2-Aminomethyl-5-(3,5-difluoro-phenyl)-4-ethyl-pentanoic acid;
2-Aminomethyl-4-ethyl-5-(2,3,4-trifluoro-phenyl)-pentanoic acid;
2-Aminomethyl-4-ethyl-5-(2,3,5-trifluoro-phenyl)-pentanoic acid;
2-Aminomethyl-4-ethyl-5-(2,3,6-trifluoro-phenyl)-pentanoic acid;
30 2-Aminomethyl-4-ethyl-5-(2,4,6-trifluoro-phenyl)-pentanoic acid;
2-Aminomethyl-4-ethyl-5-(2,3,4,5-tetrafluoro-phenyl)-pentanoic acid;
2-Aminomethyl-4-ethyl-5-(2,3,4,6-tetrafluoro-phenyl)-pentanoic acid;

- 2-Aminomethyl-4-ethyl-5-(2,3,5,6-tetrafluoro-phenyl)-pentanoic acid;
2-Aminomethyl-4-ethyl-5-pentafluorophenyl-pentanoic acid;
2-Aminomethyl-6-(2-fluoro-phenyl)-4-ethyl-hexanoic acid;
2-Aminomethyl-6-(3-fluoro-phenyl)-4-ethyl-hexanoic acid;
5 2-Aminomethyl-6-(4-fluoro-phenyl)-4-ethyl-hexanoic acid;
2-Aminomethyl-6-(2,3-difluoro-phenyl)-4-ethyl-hexanoic acid;
2-Aminomethyl-6-(2,4-difluoro-phenyl)-4-ethyl-hexanoic acid;
2-Aminomethyl-6-(2,5-difluoro-phenyl)-4-ethyl-hexanoic acid;
2-Aminomethyl-6-(2,6-difluoro-phenyl)-4-ethyl-hexanoic acid;
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2-Aminomethyl-6-(3,5-difluoro-phenyl)-4-ethyl-hexanoic acid;
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2-Aminomethyl-4-ethyl-6-(2,3,5-trifluoro-phenyl)-hexanoic acid;
2-Aminomethyl-4-ethyl-6-(2,3,6-trifluoro-phenyl)-hexanoic acid;
15 2-Aminomethyl-4-ethyl-6-(2,4,6-trifluoro-phenyl)-hexanoic acid;
2-Aminomethyl-4-ethyl-6-(2,3,4,5-tetrafluoro-phenyl)-hexanoic acid;
2-Aminomethyl-4-ethyl-6-(2,3,4,6-tetrafluoro-phenyl)-hexanoic acid;
2-Aminomethyl-4-ethyl-6-(2,3,5,6-tetrafluoro-phenyl)-hexanoic acid;
2-Aminomethyl-4-ethyl-6-pentafluorophenyl-hexanoic acid;
20 2-Aminomethyl-7-(2-fluoro-phenyl)-4-methyl-heptanoic acid;
2-Aminomethyl-7-(3-fluoro-phenyl)-4-methyl-heptanoic acid;
2-Aminomethyl-7-(4-fluoro-phenyl)-4-methyl-heptanoic acid;
2-Aminomethyl-7-(2,3-difluoro-phenyl)-4-methyl-heptanoic acid;
2-Aminomethyl-7-(2,4-difluoro-phenyl)-4-methyl-heptanoic acid;
25 2-Aminomethyl-7-(2,5-difluoro-phenyl)-4-methyl-heptanoic acid;
2-Aminomethyl-7-(2,6-difluoro-phenyl)-4-methyl-heptanoic acid;
2-Aminomethyl-7-(3,4-difluoro-phenyl)-4-methyl-heptanoic acid;
2-Aminomethyl-7-(3,5-difluoro-phenyl)-4-methyl-heptanoic acid;
2-Aminomethyl-4-methyl-7-(2,3,4-trifluoro-phenyl)-heptanoic acid;
30 2-Aminomethyl-4-methyl-7-(2,3,5-trifluoro-phenyl)-heptanoic acid;
2-Aminomethyl-4-methyl-7-(2,3,6-trifluoro-phenyl)-heptanoic acid;
2-Aminomethyl-4-methyl-7-(2,4,6-trifluoro-phenyl)-heptanoic acid;

- 2-Aminomethyl-4-methyl-7-(2,3,4,5-tetrafluoro-phenyl)-heptanoic acid;
2-Aminomethyl-4-methyl-7-(2,3,4,6-tetrafluoro-phenyl)-heptanoic acid;
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2-Aminomethyl-7-(3-fluoro-phenyl)-4-ethyl-heptanoic acid;
2-Aminomethyl-7-(4-fluoro-phenyl)-4-ethyl-heptanoic acid;
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2-Aminomethyl-7-(2,4-difluoro-phenyl)-4-ethyl-heptanoic acid;
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2-Aminomethyl-7-(2,6-difluoro-phenyl)-4-ethyl-heptanoic acid;
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2-Aminomethyl-7-(3,5-difluoro-phenyl)-4-ethyl-heptanoic acid;
2-Aminomethyl-4-ethyl-7-(2,3,4-trifluoro-phenyl)-heptanoic acid;
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2-Aminomethyl-4-ethyl-7-(2,3,6-trifluoro-phenyl)-heptanoic acid;
2-Aminomethyl-4-ethyl-7-(2,4,6-trifluoro-phenyl)-heptanoic acid;
2-Aminomethyl-4-ethyl-7-(2,3,4,5-tetrafluoro-phenyl)-heptanoic acid;
2-Aminomethyl-4-ethyl-7-(2,3,4,6-tetrafluoro-phenyl)-heptanoic acid;
20 2-Aminomethyl-4-ethyl-7-(2,3,5,6-tetrafluoro-phenyl)-heptanoic acid;
2-Aminomethyl-4-ethyl-7-pentafluorophenyl-heptanoic acid;
2-Aminomethyl-4-(2-chloro-phenyl)-pentanoic acid;
2-Aminomethyl-4-(3-chloro-phenyl)-pentanoic acid;
2-Aminomethyl-4-(4-chloro-phenyl)-pentanoic acid;
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2-Aminomethyl-4-(2,4-dichloro-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2,5-dichloro-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2,6-dichloro-phenyl)-pentanoic acid;
2-Aminomethyl-4-(3,4-dichloro-phenyl)-pentanoic acid;
30 2-Aminomethyl-4-(3,5-dichloro-phenyl)-pentanoic acid;
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2-Aminomethyl-4-(2,3,5-trichloro-phenyl)-pentanoic acid;

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5 2-Aminomethyl-4-(2,3,5,6-tetrachloro-phenyl)-pentanoic acid;
2-Aminomethyl-4-pentachlorophenyl-pentanoic acid;
2-Aminomethyl-4-(2-chloro-phenyl)-hexanoic acid;
2-Aminomethyl-4-(3-chloro-phenyl)-hexanoic acid;
2-Aminomethyl-4-(4-chloro-phenyl)-hexanoic acid;
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2-Aminomethyl-4-(2,4-dichloro-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,5-dichloro-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,6-dichloro-phenyl)-hexanoic acid;
2-Aminomethyl-4-(3,4-dichloro-phenyl)-hexanoic acid;
15 2-Aminomethyl-4-(3,5-dichloro-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,3,4-trichloro-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,3,5-trichloro-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,3,6-trichloro-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,4,6-trichloro-phenyl)-hexanoic acid;
20 2-Aminomethyl-4-(2,3,4,5-tetrachloro-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,3,4,6-tetrachloro-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,3,5,6-tetrachloro-phenyl)-hexanoic acid;
2-Aminomethyl-4-pentachlorophenyl-hexanoic acid;
2-Aminomethyl-5-(2-chloro-phenyl)-4-methyl-pentanoic acid;
25 2-Aminomethyl-5-(3-chloro-phenyl)-4-methyl-pentanoic acid;
2-Aminomethyl-5-(4-chloro-phenyl)-4-methyl-pentanoic acid;
2-Aminomethyl-5-(2,3-dichloro-phenyl)-4-methyl-pentanoic acid;
2-Aminomethyl-5-(2,4-dichloro-phenyl)-4-methyl-pentanoic acid;
2-Aminomethyl-5-(2,5-dichloro-phenyl)-4-methyl-pentanoic acid;
30 2-Aminomethyl-5-(2,6-dichloro-phenyl)-4-methyl-pentanoic acid;
2-Aminomethyl-5-(3,4-dichloro-phenyl)-4-methyl-pentanoic acid;
2-Aminomethyl-5-(3,5-dichloro-phenyl)-4-methyl-pentanoic acid;

- 2-Aminomethyl-4-methyl-5-(2,3,4-trichloro-phenyl)-pentanoic acid;
2-Aminomethyl-4-methyl-5-(2,3,5-trichloro-phenyl)-pentanoic acid;
2-Aminomethyl-4-methyl-5-(2,3,6-trichloro-phenyl)-pentanoic acid;
2-Aminomethyl-4-methyl-5-(2,4,6-trichloro-phenyl)-pentanoic acid;
5 2-Aminomethyl-4-methyl-5-(2,3,4,5-tetrachloro-phenyl)-pentanoic acid;
2-Aminomethyl-4-methyl-5-(2,3,4,6-tetrachloro-phenyl)-pentanoic acid;
2-Aminomethyl-4-methyl-5-(2,3,5,6-tetrachloro-phenyl)-pentanoic acid;
2-Aminomethyl-4-methyl-5-pentachlorophenyl-pentanoic acid;
2-Aminomethyl-5-(2-chloro-phenyl)-4-methyl-hexanoic acid;
10 2-Aminomethyl-5-(3-chloro-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-5-(4-chloro-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-5-(2,3-dichloro-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-5-(2,4-dichloro-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-5-(2,5-dichloro-phenyl)-4-methyl-hexanoic acid;
15 2-Aminomethyl-5-(2,6-dichloro-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-5-(3,4-dichloro-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-5-(3,5-dichloro-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-4-methyl-5-(2,3,4-trichloro-phenyl)-hexanoic acid;
2-Aminomethyl-4-methyl-5-(2,3,5-trichloro-phenyl)-hexanoic acid;
20 2-Aminomethyl-4-methyl-5-(2,3,6-trichloro-phenyl)-hexanoic acid;
2-Aminomethyl-4-methyl-5-(2,4,6-trichloro-phenyl)-hexanoic acid;
2-Aminomethyl-4-methyl-5-(2,3,4,5-tetrachloro-phenyl)-hexanoic acid;
2-Aminomethyl-4-methyl-5-(2,3,4,6-tetrachloro-phenyl)-hexanoic acid;
2-Aminomethyl-4-methyl-5-(2,3,5,6-tetrachloro-phenyl)-hexanoic acid;
25 2-Aminomethyl-4-methyl-5-pentachlorophenyl-hexanoic acid;
2-Aminomethyl-5-(2-chloro-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-5-(3-chloro-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-5-(4-chloro-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-5-(2,3-dichloro-phenyl)-4-methyl-hexanoic acid;
30 2-Aminomethyl-5-(2,4-dichloro-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-5-(2,5-dichloro-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-5-(2,6-dichloro-phenyl)-4-methyl-hexanoic acid;

- 2-Aminomethyl-5-(3,4-dichloro-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-5-(3,5-dichloro-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-4-methyl-5-(2,3,4-trichloro-phenyl)-hexanoic acid;
2-Aminomethyl-4-methyl-5-(2,3,5-trichloro-phenyl)-hexanoic acid;
5 2-Aminomethyl-4-methyl-5-(2,3,6-trichloro-phenyl)-hexanoic acid;
2-Aminomethyl-4-methyl-5-(2,4,6-trichloro-phenyl)-hexanoic acid;
2-Aminomethyl-4-methyl-5-(2,3,4,5-tetrachloro-phenyl)-hexanoic acid;
2-Aminomethyl-4-methyl-5-(2,3,4,6-tetrachloro-phenyl)-hexanoic acid;
2-Aminomethyl-4-methyl-5-(2,3,5,6-tetrachloro-phenyl)-hexanoic acid;
10 2-Aminomethyl-4-methyl-5-pentachlorophenyl-hexanoic acid;
2-Aminomethyl-5-(2-chloro-phenyl)-4-ethyl-pentanoic acid;
2-Aminomethyl-5-(3-chloro-phenyl)-4-ethyl-pentanoic acid;
2-Aminomethyl-5-(4-chloro-phenyl)-4-ethyl-pentanoic acid;
2-Aminomethyl-5-(2,3-dichloro-phenyl)-4-ethyl-pentanoic acid;
15 2-Aminomethyl-5-(2,4-dichloro-phenyl)-4-ethyl-pentanoic acid;
2-Aminomethyl-5-(2,5-dichloro-phenyl)-4-ethyl-pentanoic acid;
2-Aminomethyl-5-(2,6-dichloro-phenyl)-4-ethyl-pentanoic acid;
2-Aminomethyl-5-(3,4-dichloro-phenyl)-4-ethyl-pentanoic acid;
2-Aminomethyl-5-(3,5-dichloro-phenyl)-4-ethyl-pentanoic acid;
20 2-Aminomethyl-4-ethyl-5-(2,3,4-trichloro-phenyl)-pentanoic acid;
2-Aminomethyl-4-ethyl-5-(2,3,5-trichloro-phenyl)-pentanoic acid;
2-Aminomethyl-4-ethyl-5-(2,3,6-trichloro-phenyl)-pentanoic acid;
2-Aminomethyl-4-ethyl-5-(2,4,6-trichloro-phenyl)-pentanoic acid;
2-Aminomethyl-4-ethyl-5-(2,3,4,5-tetrachloro-phenyl)-pentanoic acid;
25 2-Aminomethyl-4-ethyl-5-(2,3,4,6-tetrachloro-phenyl)-pentanoic acid;
2-Aminomethyl-4-ethyl-5-(2,3,5,6-tetrachloro-phenyl)-pentanoic acid;
2-Aminomethyl-4-ethyl-5-pentachlorophenyl-pentanoic acid;
2-Aminomethyl-6-(2-chloro-phenyl)-4-ethyl-hexanoic acid;
2-Aminomethyl-6-(3-chloro-phenyl)-4-ethyl-hexanoic acid;
30 2-Aminomethyl-6-(4-chloro-phenyl)-4-ethyl-hexanoic acid;
2-Aminomethyl-6-(2,3-dichloro-phenyl)-4-ethyl-hexanoic acid;
2-Aminomethyl-6-(2,4-dichloro-phenyl)-4-ethyl-hexanoic acid;

- 2-Aminomethyl-6-(2,5-dichloro-phenyl)-4-ethyl-hexanoic acid;
2-Aminomethyl-6-(2,6-dichloro-phenyl)-4-ethyl-hexanoic acid;
2-Aminomethyl-6-(3,4-dichloro-phenyl)-4-ethyl-hexanoic acid;
2-Aminomethyl-6-(3,5-dichloro-phenyl)-4-ethyl-hexanoic acid;
5 2-Aminomethyl-4-ethyl-6-(2,3,4-trichloro-phenyl)-hexanoic acid;
2-Aminomethyl-4-ethyl-6-(2,3,5-trichloro-phenyl)-hexanoic acid;
2-Aminomethyl-4-ethyl-6-(2,3,6-trichloro-phenyl)-hexanoic acid;
2-Aminomethyl-4-ethyl-6-(2,4,6-trichloro-phenyl)-hexanoic acid;
2-Aminomethyl-4-ethyl-6-(2,3,4,5-tetrachloro-phenyl)-hexanoic acid;
10 2-Aminomethyl-4-ethyl-6-(2,3,4,6-tetrachloro-phenyl)-hexanoic acid;
2-Aminomethyl-4-ethyl-6-(2,3,5,6-tetrachloro-phenyl)-hexanoic acid;
2-Aminomethyl-4-ethyl-6-pentachlorophenyl-hexanoic acid;
2-Aminomethyl-7-(2-chloro-phenyl)-4-methyl-heptanoic acid;
2-Aminomethyl-7-(3-chloro-phenyl)-4-methyl-heptanoic acid;
15 2-Aminomethyl-7-(4-chloro-phenyl)-4-methyl-heptanoic acid;
2-Aminomethyl-7-(2,3-dichloro-phenyl)-4-methyl-heptanoic acid;
2-Aminomethyl-7-(2,4-dichloro-phenyl)-4-methyl-heptanoic acid;
2-Aminomethyl-7-(2,5-dichloro-phenyl)-4-methyl-heptanoic acid;
2-Aminomethyl-7-(2,6-dichloro-phenyl)-4-methyl-heptanoic acid;
20 2-Aminomethyl-7-(3,4-dichloro-phenyl)-4-methyl-heptanoic acid;
2-Aminomethyl-7-(3,5-dichloro-phenyl)-4-methyl-heptanoic acid;
2-Aminomethyl-4-methyl-7-(2,3,4-trichloro-phenyl)-heptanoic acid;
2-Aminomethyl-4-methyl-7-(2,3,5-trichloro-phenyl)-heptanoic acid;
2-Aminomethyl-4-methyl-7-(2,3,6-trichloro-phenyl)-heptanoic acid;
25 2-Aminomethyl-4-methyl-7-(2,4,6-trichloro-phenyl)-heptanoic acid;
2-Aminomethyl-4-methyl-7-(2,3,4,5-tetrachloro-phenyl)-heptanoic acid;
2-Aminomethyl-4-methyl-7-(2,3,4,6-tetrachloro-phenyl)-heptanoic acid;
2-Aminomethyl-4-methyl-7-(2,3,5,6-tetrachloro-phenyl)-heptanoic acid;
2-Aminomethyl-4-methyl-7-pentachlorophenyl-heptanoic acid;
30 2-Aminomethyl-7-(2-chloro-phenyl)-4-ethyl-heptanoic acid;
2-Aminomethyl-7-(3-chloro-phenyl)-4-ethyl-heptanoic acid;
2-Aminomethyl-7-(4-chloro-phenyl)-4-ethyl-heptanoic acid;

- 2-Aminomethyl-7-(2,3-dichloro-phenyl)-4-ethyl-heptanoic acid;
2-Aminomethyl-7-(2,4-dichloro-phenyl)-4-ethyl-heptanoic acid;
2-Aminomethyl-7-(2,5-dichloro-phenyl)-4-ethyl-heptanoic acid;
2-Aminomethyl-7-(2,6-dichloro-phenyl)-4-ethyl-heptanoic acid;
5 2-Aminomethyl-7-(3,4-dichloro-phenyl)-4-ethyl-heptanoic acid;
2-Aminomethyl-7-(3,5-dichloro-phenyl)-4-ethyl-heptanoic acid;
2-Aminomethyl-4-ethyl-7-(2,3,4-trichloro-phenyl)-heptanoic acid;
2-Aminomethyl-4-ethyl-7-(2,3,5-trichloro-phenyl)-heptanoic acid;
2-Aminomethyl-4-ethyl-7-(2,3,6-trichloro-phenyl)-heptanoic acid;
10 2-Aminomethyl-4-ethyl-7-(2,4,6-trichloro-phenyl)-heptanoic acid;
2-Aminomethyl-4-ethyl-7-(2,3,4,5-tetrachloro-phenyl)-heptanoic acid;
2-Aminomethyl-4-ethyl-7-(2,3,4,6-tetrachloro-phenyl)-heptanoic acid;
2-Aminomethyl-4-ethyl-7-(2,3,5,6-tetrachloro-phenyl)-heptanoic acid;
2-Aminomethyl-4-ethyl-7-pentachlorophenyl-heptanoic acid;
15 2-Aminomethyl-4-(2-methoxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-(3-methoxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-(4-methoxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2,3-dimethoxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2,4-dimethoxy-phenyl)-pentanoic acid;
20 2-Aminomethyl-4-(2,5-dimethoxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2,6-dimethoxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-(3,4-dimethoxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-(3,5-dimethoxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2,3,4-trimethoxy-phenyl)-pentanoic acid;
25 2-Aminomethyl-4-(2,3,5-trimethoxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2,3,6-trimethoxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2,4,6-trimethoxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2-methoxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-(3-methoxy-phenyl)-hexanoic acid;
30 2-Aminomethyl-4-(4-methoxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,3-dimethoxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,4-dimethoxy-phenyl)-hexanoic acid;

- 2-Aminomethyl-4-(2,5-dimethoxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,6-dimethoxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-(3,4-dimethoxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-(3,5-dimethoxy-phenyl)-hexanoic acid;
5 2-Aminomethyl-4-(2,3,4-trimethoxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,3,5-trimethoxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,3,6-trimethoxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,4,6-trimethoxy-phenyl)-hexanoic acid;
2-Aminomethyl-5-(2-methoxy-phenyl)-4-methyl-pentanoic acid;
10 2-Aminomethyl-5-(3-methoxy-phenyl)-4-methyl-pentanoic acid;
2-Aminomethyl-5-(4-methoxy-phenyl)-4-methyl-pentanoic acid;
2-Aminomethyl-5-(2,3-dimethoxy-phenyl)-4-methyl-pentanoic acid;
2-Aminomethyl-5-(2,4-dimethoxy-phenyl)-4-methyl-pentanoic acid;
2-Aminomethyl-5-(2,5-dimethoxy-phenyl)-4-methyl-pentanoic acid;
15 2-Aminomethyl-5-(2,6-dimethoxy-phenyl)-4-methyl-pentanoic acid;
2-Aminomethyl-5-(3,4-dimethoxy-phenyl)-4-methyl-pentanoic acid;
2-Aminomethyl-5-(3,5-dimethoxy-phenyl)-4-methyl-pentanoic acid;
2-Aminomethyl-4-methyl-5-(2,3,4-trimethoxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-methyl-5-(2,3,5-trimethoxy-phenyl)-pentanoic acid;
20 2-Aminomethyl-4-methyl-5-(2,3,6-trimethoxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-methyl-5-(2,4,6-trimethoxy-phenyl)-pentanoic acid;
2-Aminomethyl-5-(2-methoxy-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-5-(3-methoxy-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-5-(4-methoxy-phenyl)-4-methyl-hexanoic acid;
25 2-Aminomethyl-5-(2,3-dimethoxy-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-5-(2,4-dimethoxy-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-5-(2,5-dimethoxy-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-5-(2,6-dimethoxy-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-5-(3,4-dimethoxy-phenyl)-4-methyl-hexanoic acid;
30 2-Aminomethyl-5-(3,5-dimethoxy-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-4-methyl-5-(2,3,4-trimethoxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-methyl-5-(2,3,5-trimethoxy-phenyl)-hexanoic acid;

- 2-Aminomethyl-4-methyl-5-(2,3,6-trimethoxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-methyl-5-(2,4,6-trimethoxy-phenyl)-hexanoic acid;
2-Aminomethyl-6-(2-methoxy-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-6-(3-methoxy-phenyl)-4-methyl-hexanoic acid;
5 2-Aminomethyl-6-(4-methoxy-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-6-(2,3-dimethoxy-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-6-(2,4-dimethoxy-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-6-(2,5-dimethoxy-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-6-(2,6-dimethoxy-phenyl)-4-methyl-hexanoic acid;
10 2-Aminomethyl-6-(3,4-dimethoxy-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-6-(3,5-dimethoxy-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-4-methyl-6-(2,3,4-trimethoxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-methyl-6-(2,3,5-trimethoxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-methyl-6-(2,3,6-trimethoxy-phenyl)-hexanoic acid;
15 2-Aminomethyl-4-methyl-6-(2,4,6-trimethoxy-phenyl)-hexanoic acid;
2-Aminomethyl-5-(2-methoxy-phenyl)-4-ethyl-pentanoic acid;
2-Aminomethyl-5-(3-methoxy-phenyl)-4-ethyl-pentanoic acid;
2-Aminomethyl-5-(4-methoxy-phenyl)-4-ethyl-pentanoic acid;
2-Aminomethyl-5-(2,3-dimethoxy-phenyl)-4-ethyl-pentanoic acid;
20 2-Aminomethyl-5-(2,4-dimethoxy-phenyl)-4-ethyl-pentanoic acid;
2-Aminomethyl-5-(2,5-dimethoxy-phenyl)-4-ethyl-pentanoic acid;
2-Aminomethyl-5-(2,6-dimethoxy-phenyl)-4-ethyl-pentanoic acid;
2-Aminomethyl-5-(3,4-dimethoxy-phenyl)-4-ethyl-pentanoic acid;
2-Aminomethyl-5-(3,5-dimethoxy-phenyl)-4-ethyl-pentanoic acid;
25 2-Aminomethyl-4-ethyl-5-(2,3,4-trimethoxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-ethyl-5-(2,3,5-trimethoxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-ethyl-5-(2,3,6-trimethoxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-ethyl-5-(2,4,6-trimethoxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-ethyl-5-(2,3,4,5-tetramethoxy-phenyl)-pentanoic acid;
30 2-Aminomethyl-4-ethyl-5-(2,3,4,6-tetramethoxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-ethyl-5-(2,3,5,6-tetramethoxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-ethyl-5-pentamethoxyphenyl-pentanoic acid;

- 2-Aminomethyl-6-(2-methoxy-phenyl)-4-ethyl-hexanoic acid;
2-Aminomethyl-6-(3-methoxy-phenyl)-4-ethyl-hexanoic acid;
2-Aminomethyl-6-(4-methoxy-phenyl)-4-ethyl-hexanoic acid;
2-Aminomethyl-6-(2,3-dimethoxy-phenyl)-4-ethyl-hexanoic acid;
5 2-Aminomethyl-6-(2,4-dimethoxy-phenyl)-4-ethyl-hexanoic acid;
2-Aminomethyl-6-(2,5-dimethoxy-phenyl)-4-ethyl-hexanoic acid;
2-Aminomethyl-6-(2,6-dimethoxy-phenyl)-4-ethyl-hexanoic acid;
2-Aminomethyl-6-(3,4-dimethoxy-phenyl)-4-ethyl-hexanoic acid;
2-Aminomethyl-6-(3,5-dimethoxy-phenyl)-4-ethyl-hexanoic acid;
10 2-Aminomethyl-4-ethyl-6-(2,3,4-trimethoxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-ethyl-6-(2,3,5-trimethoxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-ethyl-6-(2,3,6-trimethoxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-ethyl-6-(2,4,6-trimethoxy-phenyl)-hexanoic acid;
2-Aminomethyl-7-(2-methoxy-phenyl)-4-methyl-heptanoic acid;
15 2-Aminomethyl-7-(3-methoxy-phenyl)-4-methyl-heptanoic acid;
2-Aminomethyl-7-(4-methoxy-phenyl)-4-methyl-heptanoic acid;
2-Aminomethyl-7-(2,3-dimethoxy-phenyl)-4-methyl-heptanoic acid;
2-Aminomethyl-7-(2,4-dimethoxy-phenyl)-4-methyl-heptanoic acid;
2-Aminomethyl-7-(2,5-dimethoxy-phenyl)-4-methyl-heptanoic acid;
20 2-Aminomethyl-7-(2,6-dimethoxy-phenyl)-4-methyl-heptanoic acid;
2-Aminomethyl-7-(3,4-dimethoxy-phenyl)-4-methyl-heptanoic acid;
2-Aminomethyl-7-(3,5-dimethoxy-phenyl)-4-methyl-heptanoic acid;
2-Aminomethyl-4-methyl-7-(2,3,4-trimethoxy-phenyl)-heptanoic acid;
2-Aminomethyl-4-methyl-7-(2,3,5-trimethoxy-phenyl)-heptanoic acid;
25 2-Aminomethyl-4-methyl-7-(2,3,6-trimethoxy-phenyl)-heptanoic acid;
2-Aminomethyl-4-methyl-7-(2,4,6-trimethoxy-phenyl)-heptanoic acid;
2-Aminomethyl-7-(2-methoxy-phenyl)-4-ethyl-heptanoic acid;
2-Aminomethyl-7-(3-methoxy-phenyl)-4-ethyl-heptanoic acid;
2-Aminomethyl-7-(4-methoxy-phenyl)-4-ethyl-heptanoic acid;
30 2-Aminomethyl-7-(2,3-dimethoxy-phenyl)-4-ethyl-heptanoic acid;
2-Aminomethyl-7-(2,4-dimethoxy-phenyl)-4-ethyl-heptanoic acid;
2-Aminomethyl-7-(2,5-dimethoxy-phenyl)-4-ethyl-heptanoic acid;

- 2-Aminomethyl-7-(2,6-dimethoxy-phenyl)-4-ethyl-heptanoic acid;
2-Aminomethyl-7-(3,4-dimethoxy-phenyl)-4-ethyl-heptanoic acid;
2-Aminomethyl-7-(3,5-dimethoxy-phenyl)-4-ethyl-heptanoic acid;
2-Aminomethyl-4-ethyl-7-(2,3,4-trimethoxy-phenyl)-heptanoic acid;
5 2-Aminomethyl-4-ethyl-7-(2,3,5-trimethoxy-phenyl)-heptanoic acid;
2-Aminomethyl-4-ethyl-7-(2,3,6-trimethoxy-phenyl)-heptanoic acid;
2-Aminomethyl-4-ethyl-7-(2,4,6-trimethoxy-phenyl)-heptanoic acid;
2-Aminomethyl-4-(2-trifluoromethyl-phenyl)-pentanoic acid;
2-Aminomethyl-4-(3-trifluoromethyl-phenyl)-pentanoic acid;
10 2-Aminomethyl-4-(4-trifluoromethyl-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2,3-di-trifluoromethyl-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2,4-di-trifluoromethyl-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2,5-di-trifluoromethyl-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2,6-di-trifluoromethyl-phenyl)-pentanoic acid;
15 2-Aminomethyl-4-(3,4-di-trifluoromethyl-phenyl)-pentanoic acid;
2-Aminomethyl-4-(3,5-di-trifluoromethyl-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2,3,4-tri-trifluoromethyl-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2,3,5-tri-trifluoromethyl-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2,3,6-tri-trifluoromethyl-phenyl)-pentanoic acid;
20 2-Aminomethyl-4-(2,4,6-tri-trifluoromethyl-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2-trifluoromethyl-phenyl)-hexanoic acid;
2-Aminomethyl-4-(3-trifluoromethyl-phenyl)-hexanoic acid;
2-Aminomethyl-4-(4-trifluoromethyl-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,3-di-trifluoromethyl-phenyl)-hexanoic acid;
25 2-Aminomethyl-4-(2,4-di-trifluoromethyl-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,5-di-trifluoromethyl-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,6-di-trifluoromethyl-phenyl)-hexanoic acid;
2-Aminomethyl-4-(3,4-di-trifluoromethyl-phenyl)-hexanoic acid;
2-Aminomethyl-4-(3,5-di-trifluoromethyl-phenyl)-hexanoic acid;
30 2-Aminomethyl-4-(2,3,4-tri-trifluoromethyl-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,3,5-tri-trifluoromethyl-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,3,6-tri-trifluoromethyl-phenyl)-hexanoic acid;

- 2-Aminomethyl-4-(2,4,6-tri-trifluoromethyl-phenyl)-hexanoic acid;
2-Aminomethyl-5-(2-trifluoromethyl-phenyl)-4-methyl-pentanoic acid;
2-Aminomethyl-5-(3-trifluoromethyl-phenyl)-4-methyl-pentanoic acid;
2-Aminomethyl-5-(4-trifluoromethyl-phenyl)-4-methyl-pentanoic acid;
5 2-Aminomethyl-5-(2,3-di-trifluoromethyl-phenyl)-4-methyl-pentanoic acid;
2-Aminomethyl-5-(2,4-di-trifluoromethyl-phenyl)-4-methyl-pentanoic acid;
2-Aminomethyl-5-(2,5-di-trifluoromethyl-phenyl)-4-methyl-pentanoic
10 acid;
2-Aminomethyl-5-(2,6-di-trifluoromethyl-phenyl)-4-methyl-pentanoic acid;
2-Aminomethyl-5-(3,4-di-trifluoromethyl-phenyl)-4-methyl-pentanoic acid;
2-Aminomethyl-5-(3,5-di-trifluoromethyl-phenyl)-4-methyl-pentanoic
15 acid;
2-Aminomethyl-4-methyl-5-(2,3,4-tri-trifluoromethyl-phenyl)-pentanoic acid;
2-Aminomethyl-4-methyl-5-(2,3,5-tri-trifluoromethyl-phenyl)-pentanoic
20 acid;
2-Aminomethyl-4-methyl-5-(2,3,6-tri-trifluoromethyl-phenyl)-pentanoic acid;
2-Aminomethyl-4-methyl-5-(2,4,6-tri-trifluoromethyl-phenyl)-pentanoic acid;
2-Aminomethyl-5-(2-trifluoromethyl-phenyl)-4-methyl-hexanoic acid;
25 2-Aminomethyl-5-(3-trifluoromethyl-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-5-(4-trifluoromethyl-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-5-(2,3-di-trifluoromethyl-phenyl)-4-methyl-hexanoic acid;
30 2-Aminomethyl-5-(2,4-di-trifluoromethyl-phenyl)-4-methyl-hexanoic acid;

- 2-Aminomethyl-5-(2,5-di-trifluoromethyl-phenyl)-4-methyl-hexanoic acid;
- 2-Aminomethyl-5-(2,6-di-trifluoromethyl-phenyl)-4-methyl-hexanoic acid;
- 5 2-Aminomethyl-5-(3,4-di-trifluoromethyl-phenyl)-4-methyl-hexanoic acid;
- 2-Aminomethyl-5-(3,5-di-trifluoromethyl-phenyl)-4-methyl-hexanoic acid;
- 2-Aminomethyl-4-methyl-5-(2,3,4-tri-trifluoromethyl-phenyl)-hexanoic acid;
- 10 2-Aminomethyl-4-methyl-5-(2,3,5-tri-trifluoromethyl-phenyl)-hexanoic acid;
- 2-Aminomethyl-4-methyl-5-(2,3,6-tri-trifluoromethyl-phenyl)-hexanoic acid;
- 15 2-Aminomethyl-4-methyl-5-(2,4,6-tri-trifluoromethyl-phenyl)-hexanoic acid;
- 2-Aminomethyl-6-(2-trifluoromethyl-phenyl)-4-methyl-hexanoic acid;
- 2-Aminomethyl-6-(3-trifluoromethyl-phenyl)-4-methyl-hexanoic acid;
- 2-Aminomethyl-6-(4-trifluoromethyl-phenyl)-4-methyl-hexanoic acid;
- 20 2-Aminomethyl-6-(2,3-di-trifluoromethyl-phenyl)-4-methyl-hexanoic acid;
- 2-Aminomethyl-6-(2,4-di-trifluoromethyl-phenyl)-4-methyl-hexanoic acid;
- 2-Aminomethyl-6-(2,5-di-trifluoromethyl-phenyl)-4-methyl-hexanoic acid;
- 25 2-Aminomethyl-6-(2,6-di-trifluoromethyl-phenyl)-4-methyl-hexanoic acid;
- 2-Aminomethyl-6-(3,4-di-trifluoromethyl-phenyl)-4-methyl-hexanoic acid;
- 30 2-Aminomethyl-6-(3,5-di-trifluoromethyl-phenyl)-4-methyl-hexanoic acid;

- 2-Aminomethyl-4-methyl-6-(2,3,4-tri-trifluoromethyl-phenyl)-hexanoic acid;
- 2-Aminomethyl-4-methyl-6-(2,3,5-tri-trifluoromethyl-phenyl)-hexanoic acid;
- 5 2-Aminomethyl-4-methyl-6-(2,3,6-tri-trifluoromethyl-phenyl)-hexanoic acid;
- 2-Aminomethyl-4-methyl-6-(2,4,6-tri-trifluoromethyl-phenyl)-hexanoic acid;
- 2-Aminomethyl-5-(2-trifluoromethyl-phenyl)-4-ethyl-pentanoic acid;
- 10 2-Aminomethyl-5-(3-trifluoromethyl-phenyl)-4-ethyl-pentanoic acid;
- 2-Aminomethyl-5-(4-trifluoromethyl-phenyl)-4-ethyl-pentanoic acid;
- 2-Aminomethyl-5-(2,3-di-trifluoromethyl-phenyl)-4-ethyl-pentanoic acid;
- 2-Aminomethyl-5-(2,4-di-trifluoromethyl-phenyl)-4-ethyl-pentanoic acid;
- 2-Aminomethyl-5-(2,5-di-trifluoromethyl-phenyl)-4-ethyl-pentanoic acid;
- 15 2-Aminomethyl-5-(2,6-di-trifluoromethyl-phenyl)-4-ethyl-pentanoic acid;
- 2-Aminomethyl-5-(3,4-di-trifluoromethyl-phenyl)-4-ethyl-pentanoic acid;
- 2-Aminomethyl-5-(3,5-di-trifluoromethyl-phenyl)-4-ethyl-pentanoic acid;
- 2-Aminomethyl-4-ethyl-5-(2,3,4-tri-trifluoromethyl-phenyl)-pentanoic acid;
- 20 2-Aminomethyl-4-ethyl-5-(2,3,5-tri-trifluoromethyl-phenyl)-pentanoic acid;
- 2-Aminomethyl-4-ethyl-5-(2,3,6-tri-trifluoromethyl-phenyl)-pentanoic acid;
- 2-Aminomethyl-4-ethyl-5-(2,4,6-tri-trifluoromethyl-phenyl)-pentanoic acid;
- 25 2-Aminomethyl-4-ethyl-5-(2,3,4,5-tetra-trifluoromethyl-phenyl)-pentanoic acid;
- 2-Aminomethyl-4-ethyl-5-(2,3,4,6-tetra-trifluoromethyl-phenyl)-pentanoic acid;
- 30 2-Aminomethyl-4-ethyl-5-(2,3,5,6-tetra-trifluoromethyl-phenyl)-pentanoic acid;
- 2-Aminomethyl-4-ethyl-5-penta-trifluoromethylphenyl-pentanoic acid;

- 2-Aminomethyl-6-(2-trifluoromethyl-phenyl)-4-ethyl-hexanoic acid;
2-Aminomethyl-6-(3-trifluoromethyl-phenyl)-4-ethyl-hexanoic acid;
2-Aminomethyl-6-(4-trifluoromethyl-phenyl)-4-ethyl-hexanoic acid;
2-Aminomethyl-6-(2,3-di-trifluoromethyl-phenyl)-4-ethyl-hexanoic acid;
5 2-Aminomethyl-6-(2,4-di-trifluoromethyl-phenyl)-4-ethyl-hexanoic acid;
2-Aminomethyl-6-(2,5-di-trifluoromethyl-phenyl)-4-ethyl-hexanoic acid;
2-Aminomethyl-6-(2,6-di-trifluoromethyl-phenyl)-4-ethyl-hexanoic acid;
2-Aminomethyl-6-(3,4-di-trifluoromethyl-phenyl)-4-ethyl-hexanoic acid;
2-Aminomethyl-6-(3,5-di-trifluoromethyl-phenyl)-4-ethyl-hexanoic acid;
10 2-Aminomethyl-4-ethyl-6-(2,3,4-tri-trifluoromethyl-phenyl)-hexanoic
acid;
2-Aminomethyl-4-ethyl-6-(2,3,5-tri-trifluoromethyl-phenyl)-hexanoic
acid;
2-Aminomethyl-4-ethyl-6-(2,3,6-tri-trifluoromethyl-phenyl)-hexanoic
15 acid;
2-Aminomethyl-4-ethyl-6-(2,4,6-tri-trifluoromethyl-phenyl)-hexanoic
acid;
2-Aminomethyl-7-(2-trifluoromethyl-phenyl)-4-methyl-heptanoic acid;
2-Aminomethyl-7-(3-trifluoromethyl-phenyl)-4-methyl-heptanoic acid;
20 2-Aminomethyl-7-(4-trifluoromethyl-phenyl)-4-methyl-heptanoic acid;
2-Aminomethyl-7-(2,3-di-trifluoromethyl-phenyl)-4-methyl-heptanoic
acid;
2-Aminomethyl-7-(2,4-di-trifluoromethyl-phenyl)-4-methyl-heptanoic
acid;
25 2-Aminomethyl-7-(2,5-di-trifluoromethyl-phenyl)-4-methyl-heptanoic
acid;
2-Aminomethyl-7-(2,6-di-trifluoromethyl-phenyl)-4-methyl-heptanoic
acid;
2-Aminomethyl-7-(3,4-di-trifluoromethyl-phenyl)-4-methyl-heptanoic
30 acid;
2-Aminomethyl-7-(3,5-di-trifluoromethyl-phenyl)-4-methyl-heptanoic
acid;

- 2-Aminomethyl-4-methyl-7-(2,3,4-tri-trifluoromethyl-phenyl)-heptanoic acid;
- 2-Aminomethyl-4-methyl-7-(2,3,5-tri-trifluoromethyl-phenyl)-heptanoic acid;
- 5 2-Aminomethyl-4-methyl-7-(2,3,6-tri-trifluoromethyl-phenyl)-heptanoic acid;
- 2-Aminomethyl-4-methyl-7-(2,4,6-tri-trifluoromethyl-phenyl)-heptanoic acid;
- 10 2-Aminomethyl-7-(2-trifluoromethyl-phenyl)-4-ethyl-heptanoic acid;
- 2-Aminomethyl-7-(3-trifluoromethyl-phenyl)-4-ethyl-heptanoic acid;
- 2-Aminomethyl-7-(4-trifluoromethyl-phenyl)-4-ethyl-heptanoic acid;
- 2-Aminomethyl-7-(2,3-di-trifluoromethyl-phenyl)-4-ethyl-heptanoic acid;
- 2-Aminomethyl-7-(2,4-di-trifluoromethyl-phenyl)-4-ethyl-heptanoic acid;
- 2-Aminomethyl-7-(2,5-di-trifluoromethyl-phenyl)-4-ethyl-heptanoic acid;
- 15 2-Aminomethyl-7-(2,6-di-trifluoromethyl-phenyl)-4-ethyl-heptanoic acid;
- 2-Aminomethyl-7-(3,4-di-trifluoromethyl-phenyl)-4-ethyl-heptanoic acid;
- 2-Aminomethyl-7-(3,5-di-trifluoromethyl-phenyl)-4-ethyl-heptanoic acid;
- 2-Aminomethyl-4-ethyl-7-(2,3,4-tri-trifluoromethyl-phenyl)-heptanoic acid;
- 20 2-Aminomethyl-4-ethyl-7-(2,3,5-tri-trifluoromethyl-phenyl)-heptanoic acid;
- 2-Aminomethyl-4-ethyl-7-(2,3,6-tri-trifluoromethyl-phenyl)-heptanoic acid;
- 2-Aminomethyl-4-ethyl-7-(2,4,6-tri-trifluoromethyl-phenyl)-heptanoic acid;
- 25 2-Aminomethyl-4-(2-trifluoromethoxy-phenyl)-pentanoic acid;
- 2-Aminomethyl-4-(3-trifluoromethoxy-phenyl)-pentanoic acid;
- 2-Aminomethyl-4-(4-trifluoromethoxy-phenyl)-pentanoic acid;
- 2-Aminomethyl-4-(2,3-di-trifluoromethoxy-phenyl)-pentanoic acid;
- 30 2-Aminomethyl-4-(2,4-di-trifluoromethoxy-phenyl)-pentanoic acid;
- 2-Aminomethyl-4-(2,5-di-trifluoromethoxy-phenyl)-pentanoic acid;
- 2-Aminomethyl-4-(2,6-di-trifluoromethoxy-phenyl)-pentanoic acid;

- 2-Aminomethyl-4-(3,4-di-trifluoromethoxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-(3,5-di-trifluoromethoxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2,3,4-tri-trifluoromethoxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2,3,5-tri-trifluoromethoxy-phenyl)-pentanoic acid;
5 2-Aminomethyl-4-(2,3,6-tri-trifluoromethoxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2,4,6-tri-trifluoromethoxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2-trifluoromethoxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-(3-trifluoromethoxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-(4-trifluoromethoxy-phenyl)-hexanoic acid;
10 2-Aminomethyl-4-(2,3-di-trifluoromethoxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,4-di-trifluoromethoxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,5-di-trifluoromethoxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,6-di-trifluoromethoxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-(3,4-di-trifluoromethoxy-phenyl)-hexanoic acid;
15 2-Aminomethyl-4-(3,5-di-trifluoromethoxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,3,4-tri-trifluoromethoxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,3,5-tri-trifluoromethoxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,3,6-tri-trifluoromethoxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,4,6-tri-trifluoromethoxy-phenyl)-hexanoic acid;
20 2-Aminomethyl-5-(2-trifluoromethoxy-phenyl)-4-methyl-pentanoic acid;
2-Aminomethyl-5-(3-trifluoromethoxy-phenyl)-4-methyl-pentanoic acid;
2-Aminomethyl-5-(4-trifluoromethoxy-phenyl)-4-methyl-pentanoic acid;
2-Aminomethyl-5-(2,3-di-trifluoromethoxy-phenyl)-4-methyl-pentanoic
acid;
25 2-Aminomethyl-5-(2,4-di-trifluoromethoxy-phenyl)-4-methyl-pentanoic
acid;
2-Aminomethyl-5-(2,5-di-trifluoromethoxy-phenyl)-4-methyl-pentanoic
acid;
2-Aminomethyl-5-(2,6-di-trifluoromethoxy-phenyl)-4-methyl-pentanoic
30 acid;
2-Aminomethyl-5-(3,4-di-trifluoromethoxy-phenyl)-4-methyl-pentanoic
acid;

- 2-Aminomethyl-5-(3,5-di-trifluoromethoxy-phenyl)-4-methyl-pentanoic acid;
- 2-Aminomethyl-4-methyl-5-(2,3,4-tri-trifluoromethoxy-phenyl)-pentanoic acid;
- 5 2-Aminomethyl-4-methyl-5-(2,3,5-tri-trifluoromethoxy-phenyl)-pentanoic acid;
- 2-Aminomethyl-4-methyl-5-(2,3,6-tri-trifluoromethoxy-phenyl)-pentanoic acid;
- 2-Aminomethyl-4-methyl-5-(2,4,6-tri-trifluoromethoxy-phenyl)-pentanoic acid;
- 10 2-Aminomethyl-5-(2-trifluoromethoxy-phenyl)-4-ethyl-pentanoic acid;
- 2-Aminomethyl-5-(3-trifluoromethoxy-phenyl)-4-ethyl-pentanoic acid;
- 2-Aminomethyl-5-(4-trifluoromethoxy-phenyl)-4-ethyl-pentanoic acid;
- 2-Aminomethyl-5-(2,3-di-trifluoromethoxy-phenyl)-4-ethyl-pentanoic acid;
- 15 2-Aminomethyl-5-(2,4-di-trifluoromethoxy-phenyl)-4-ethyl-pentanoic acid;
- 2-Aminomethyl-5-(2,5-di-trifluoromethoxy-phenyl)-4-ethyl-pentanoic acid;
- 20 2-Aminomethyl-5-(2,6-di-trifluoromethoxy-phenyl)-4-ethyl-pentanoic acid;
- 2-Aminomethyl-5-(3,4-di-trifluoromethoxy-phenyl)-4-ethyl-pentanoic acid;
- 2-Aminomethyl-5-(3,5-di-trifluoromethoxy-phenyl)-4-ethyl-pentanoic acid;
- 25 2-Aminomethyl-4-ethyl-5-(2,3,4-tri-trifluoromethoxy-phenyl)-pentanoic acid;
- 2-Aminomethyl-4-ethyl-5-(2,3,5-tri-trifluoromethoxy-phenyl)-pentanoic acid;
- 30 2-Aminomethyl-4-ethyl-5-(2,3,6-tri-trifluoromethoxy-phenyl)-pentanoic acid;

- 2-Aminomethyl-4-ethyl-5-(2,4,6-tri-trifluoromethoxy-phenyl)-pentanoic acid;
- 2-Aminomethyl-4-ethyl-5-(2,3,4,5-tetra-trifluoromethoxy-phenyl)-pentanoic acid;
- 5 2-Aminomethyl-4-ethyl-5-(2,3,4,6-tetra-trifluoromethoxy-phenyl)-pentanoic acid;
- 2-Aminomethyl-4-ethyl-5-(2,3,5,6-tetra-trifluoromethoxy-phenyl)-pentanoic acid;
- 2-Aminomethyl-4-ethyl-5-penta-trifluoromethoxyphenyl-pentanoic acid;
- 10 2-Aminomethyl-5-(2-trifluoromethoxy-phenyl)-4-methyl-hexanoic acid;
- 2-Aminomethyl-5-(3-trifluoromethoxy-phenyl)-4-methyl-hexanoic acid;
- 2-Aminomethyl-5-(4-trifluoromethoxy-phenyl)-4-methyl-hexanoic acid;
- 2-Aminomethyl-5-(2,3-di-trifluoromethoxy-phenyl)-4-methyl-hexanoic acid;
- 15 2-Aminomethyl-5-(2,4-di-trifluoromethoxy-phenyl)-4-methyl-hexanoic acid;
- 2-Aminomethyl-5-(2,5-di-trifluoromethoxy-phenyl)-4-methyl-hexanoic acid;
- 2-Aminomethyl-5-(2,6-di-trifluoromethoxy-phenyl)-4-methyl-hexanoic acid;
- 20 2-Aminomethyl-5-(3,4-di-trifluoromethoxy-phenyl)-4-methyl-hexanoic acid;
- 2-Aminomethyl-5-(3,5-di-trifluoromethoxy-phenyl)-4-methyl-hexanoic acid;
- 25 2-Aminomethyl-4-methyl-5-(2,3,4-tri-trifluoromethoxy-phenyl)-hexanoic acid;
- 2-Aminomethyl-4-methyl-5-(2,3,5-tri-trifluoromethoxy-phenyl)-hexanoic acid;
- 2-Aminomethyl-4-methyl-5-(2,3,6-tri-trifluoromethoxy-phenyl)-hexanoic acid;
- 30 2-Aminomethyl-4-methyl-5-(2,4,6-tri-trifluoromethoxy-phenyl)-hexanoic acid;

- 2-Aminomethyl-6-(2-trifluoromethoxy-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-6-(3-trifluoromethoxy-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-6-(4-trifluoromethoxy-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-6-(2,3-di-trifluoromethoxy-phenyl)-4-methyl-hexanoic
5 acid;
2-Aminomethyl-6-(2,4-di-trifluoromethoxy-phenyl)-4-methyl-hexanoic
acid;
2-Aminomethyl-6-(2,5-di-trifluoromethoxy-phenyl)-4-methyl-hexanoic
acid;
10 2-Aminomethyl-6-(2,6-di-trifluoromethoxy-phenyl)-4-methyl-hexanoic
acid;
2-Aminomethyl-6-(3,4-di-trifluoromethoxy-phenyl)-4-methyl-hexanoic
acid;
2-Aminomethyl-6-(3,5-di-trifluoromethoxy-phenyl)-4-methyl-hexanoic
15 acid;
2-Aminomethyl-4-methyl-6-(2,3,4-tri-trifluoromethoxy-phenyl)-hexanoic
acid;
2-Aminomethyl-4-methyl-6-(2,3,5-tri-trifluoromethoxy-phenyl)-hexanoic
acid;
20 2-Aminomethyl-4-methyl-6-(2,3,6-tri-trifluoromethoxy-phenyl)-hexanoic
acid;
2-Aminomethyl-4-methyl-6-(2,4,6-tri-trifluoromethoxy-phenyl)-hexanoic
acid;
2-Aminomethyl-6-(2-trifluoromethoxy-phenyl)-4-ethyl-hexanoic acid;
25 2-Aminomethyl-6-(3-trifluoromethoxy-phenyl)-4-ethyl-hexanoic acid;
2-Aminomethyl-6-(4-trifluoromethoxy-phenyl)-4-ethyl-hexanoic acid;
2-Aminomethyl-6-(2,3-di-trifluoromethoxy-phenyl)-4-ethyl-hexanoic
acid;
2-Aminomethyl-6-(2,4-di-trifluoromethoxy-phenyl)-4-ethyl-hexanoic
30 acid;
2-Aminomethyl-6-(2,5-di-trifluoromethoxy-phenyl)-4-ethyl-hexanoic
acid;

- 2-Aminomethyl-6-(2,6-di-trifluoromethoxy-phenyl)-4-ethyl-hexanoic acid;
- 2-Aminomethyl-6-(3,4-di-trifluoromethoxy-phenyl)-4-ethyl-hexanoic acid;
- 5 2-Aminomethyl-6-(3,5-di-trifluoromethoxy-phenyl)-4-ethyl-hexanoic acid;
- 2-Aminomethyl-4-ethyl-6-(2,3,4-tri-trifluoromethoxy-phenyl)-hexanoic acid;
- 2-Aminomethyl-4-ethyl-6-(2,3,5-tri-trifluoromethoxy-phenyl)-hexanoic acid;
- 10 2-Aminomethyl-4-ethyl-6-(2,3,6-tri-trifluoromethoxy-phenyl)-hexanoic acid;
- 2-Aminomethyl-4-ethyl-6-(2,4,6-tri-trifluoromethoxy-phenyl)-hexanoic acid;
- 15 2-Aminomethyl-7-(2-trifluoromethoxy-phenyl)-4-methyl-heptanoic acid;
- 2-Aminomethyl-7-(3-trifluoromethoxy-phenyl)-4-methyl-heptanoic acid;
- 2-Aminomethyl-7-(4-trifluoromethoxy-phenyl)-4-methyl-heptanoic acid;
- 2-Aminomethyl-7-(2,3-di-trifluoromethoxy-phenyl)-4-methyl-heptanoic acid;
- 20 2-Aminomethyl-7-(2,4-di-trifluoromethoxy-phenyl)-4-methyl-heptanoic acid;
- 2-Aminomethyl-7-(2,5-di-trifluoromethoxy-phenyl)-4-methyl-heptanoic acid;
- 2-Aminomethyl-7-(2,6-di-trifluoromethoxy-phenyl)-4-methyl-heptanoic acid;
- 25 2-Aminomethyl-7-(3,4-di-trifluoromethoxy-phenyl)-4-methyl-heptanoic acid;
- 2-Aminomethyl-7-(3,5-di-trifluoromethoxy-phenyl)-4-methyl-heptanoic acid;
- 30 2-Aminomethyl-4-methyl-7-(2,3,4-tri-trifluoromethoxy-phenyl)-heptanoic acid;

- 2-Aminomethyl-4-methyl-7-(2,3,5-tri-trifluoromethoxy-phenyl)-heptanoic acid;
- 2-Aminomethyl-4-methyl-7-(2,3,6-tri-trifluoromethoxy-phenyl)-heptanoic acid;
- 5 2-Aminomethyl-4-methyl-7-(2,4,6-tri-trifluoromethoxy-phenyl)-heptanoic acid;
- 2-Aminomethyl-7-(2-trifluoromethoxy-phenyl)-4-ethyl-heptanoic acid;
- 2-Aminomethyl-7-(3-trifluoromethoxy-phenyl)-4-ethyl-heptanoic acid;
- 2-Aminomethyl-7-(4-trifluoromethoxy-phenyl)-4-ethyl-heptanoic acid;
- 10 2-Aminomethyl-7-(2,3-di-trifluoromethoxy-phenyl)-4-ethyl-heptanoic acid;
- 2-Aminomethyl-7-(2,4-di-trifluoromethoxy-phenyl)-4-ethyl-heptanoic acid;
- 2-Aminomethyl-7-(2,5-di-trifluoromethoxy-phenyl)-4-ethyl-heptanoic acid;
- 15 2-Aminomethyl-7-(2,6-di-trifluoromethoxy-phenyl)-4-ethyl-heptanoic acid;
- 2-Aminomethyl-7-(3,4-di-trifluoromethoxy-phenyl)-4-ethyl-heptanoic acid;
- 20 2-Aminomethyl-7-(3,5-di-trifluoromethoxy-phenyl)-4-ethyl-heptanoic acid;
- 2-Aminomethyl-4-ethyl-7-(2,3,4-tri-trifluoromethoxy-phenyl)-heptanoic acid;
- 2-Aminomethyl-4-ethyl-7-(2,3,5-tri-trifluoromethoxy-phenyl)-heptanoic acid;
- 25 2-Aminomethyl-4-ethyl-7-(2,3,6-tri-trifluoromethoxy-phenyl)-heptanoic acid;
- 2-Aminomethyl-4-ethyl-7-(2,4,6-tri-trifluoromethoxy-phenyl)-heptanoic acid;
- 30 2-Aminomethyl-4-(2-ethoxy-phenyl)-pentanoic acid;
- 2-Aminomethyl-4-(3-ethoxy-phenyl)-pentanoic acid;
- 2-Aminomethyl-4-(4-ethoxy-phenyl)-pentanoic acid;

- 2-Aminomethyl-4-(2,3-diethoxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2,4-diethoxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2,5-diethoxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2,6-diethoxy-phenyl)-pentanoic acid;
5 2-Aminomethyl-4-(3,4-diethoxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-(3,5-diethoxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2,3,4-triethoxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2,3,5-triethoxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2,3,6-triethoxy-phenyl)-pentanoic acid;
10 2-Aminomethyl-4-(2,4,6-triethoxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2-ethoxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-(3-ethoxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-(4-ethoxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,3-diethoxy-phenyl)-hexanoic acid;
15 2-Aminomethyl-4-(2,4-diethoxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,5-diethoxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,6-diethoxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-(3,4-diethoxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-(3,5-diethoxy-phenyl)-hexanoic acid;
20 2-Aminomethyl-4-(2,3,4-triethoxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,3,5-triethoxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,3,6-triethoxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,4,6-triethoxy-phenyl)-hexanoic acid;
2-Aminomethyl-5-(2-ethoxy-phenyl)-4-methyl-pentanoic acid;
25 2-Aminomethyl-5-(3-ethoxy-phenyl)-4-methyl-pentanoic acid;
2-Aminomethyl-5-(4-ethoxy-phenyl)-4-methyl-pentanoic acid;
2-Aminomethyl-5-(2,3-diethoxy-phenyl)-4-methyl-pentanoic acid;
2-Aminomethyl-5-(2,4-diethoxy-phenyl)-4-methyl-pentanoic acid;
2-Aminomethyl-5-(2,5-diethoxy-phenyl)-4-methyl-pentanoic acid;
30 2-Aminomethyl-5-(2,6-diethoxy-phenyl)-4-methyl-pentanoic acid;
2-Aminomethyl-5-(3,4-diethoxy-phenyl)-4-methyl-pentanoic acid;
2-Aminomethyl-5-(3,5-diethoxy-phenyl)-4-methyl-pentanoic acid;

- 2-Aminomethyl-4-methyl-5-(2,3,4-triethoxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-methyl-5-(2,3,5-triethoxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-methyl-5-(2,3,6-triethoxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-methyl-5-(2,4,6-triethoxy-phenyl)-pentanoic acid;
5 2-Aminomethyl-5-(2-ethoxy-phenyl)-4-ethyl-pentanoic acid;
2-Aminomethyl-5-(3-ethoxy-phenyl)-4-ethyl-pentanoic acid;
2-Aminomethyl-5-(4-ethoxy-phenyl)-4-ethyl-pentanoic acid;
2-Aminomethyl-5-(2,3-diethoxy-phenyl)-4-ethyl-pentanoic acid;
2-Aminomethyl-5-(2,4-diethoxy-phenyl)-4-ethyl-pentanoic acid;
10 2-Aminomethyl-5-(2,5-diethoxy-phenyl)-4-ethyl-pentanoic acid;
2-Aminomethyl-5-(2,6-diethoxy-phenyl)-4-ethyl-pentanoic acid;
2-Aminomethyl-5-(3,4-diethoxy-phenyl)-4-ethyl-pentanoic acid;
2-Aminomethyl-5-(3,5-diethoxy-phenyl)-4-ethyl-pentanoic acid;
2-Aminomethyl-4-ethyl-5-(2,3,4-triethoxy-phenyl)-pentanoic acid;
15 2-Aminomethyl-4-ethyl-5-(2,3,5-triethoxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-ethyl-5-(2,3,6-triethoxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-ethyl-5-(2,4,6-triethoxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-ethyl-5-(2,3,4,5-tetraethoxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-ethyl-5-(2,3,4,6-tetraethoxy-phenyl)-pentanoic acid;
20 2-Aminomethyl-4-ethyl-5-(2,3,5,6-tetraethoxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-ethyl-5-pentaethoxyphenyl-pentanoic acid;
2-Aminomethyl-5-(2-ethoxy-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-5-(3-ethoxy-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-5-(4-ethoxy-phenyl)-4-methyl-hexanoic acid;
25 2-Aminomethyl-5-(2,3-diethoxy-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-5-(2,4-diethoxy-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-5-(2,5-diethoxy-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-5-(2,6-diethoxy-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-5-(3,4-diethoxy-phenyl)-4-methyl-hexanoic acid;
30 2-Aminomethyl-5-(3,5-diethoxy-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-4-methyl-5-(2,3,4-triethoxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-methyl-5-(2,3,5-triethoxy-phenyl)-hexanoic acid;

- 2-Aminomethyl-4-methyl-5-(2,3,6-triethoxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-methyl-5-(2,4,6-triethoxy-phenyl)-hexanoic acid;
2-Aminomethyl-6-(2-ethoxy-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-6-(3-ethoxy-phenyl)-4-methyl-hexanoic acid;
5 2-Aminomethyl-6-(4-ethoxy-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-6-(2,3-diethoxy-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-6-(2,4-diethoxy-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-6-(2,5-diethoxy-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-6-(2,6-diethoxy-phenyl)-4-methyl-hexanoic acid;
10 2-Aminomethyl-6-(3,4-diethoxy-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-6-(3,5-diethoxy-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-4-methyl-6-(2,3,4-triethoxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-methyl-6-(2,3,5-triethoxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-methyl-6-(2,3,6-triethoxy-phenyl)-hexanoic acid;
15 2-Aminomethyl-4-methyl-6-(2,4,6-triethoxy-phenyl)-hexanoic acid;
2-Aminomethyl-6-(2-ethoxy-phenyl)-4-ethyl-hexanoic acid;
2-Aminomethyl-6-(3-ethoxy-phenyl)-4-ethyl-hexanoic acid;
2-Aminomethyl-6-(4-ethoxy-phenyl)-4-ethyl-hexanoic acid;
2-Aminomethyl-6-(2,3-diethoxy-phenyl)-4-ethyl-hexanoic acid;
20 2-Aminomethyl-6-(2,4-diethoxy-phenyl)-4-ethyl-hexanoic acid;
2-Aminomethyl-6-(2,5-diethoxy-phenyl)-4-ethyl-hexanoic acid;
2-Aminomethyl-6-(2,6-diethoxy-phenyl)-4-ethyl-hexanoic acid;
2-Aminomethyl-6-(3,4-diethoxy-phenyl)-4-ethyl-hexanoic acid;
2-Aminomethyl-6-(3,5-diethoxy-phenyl)-4-ethyl-hexanoic acid;
25 2-Aminomethyl-4-ethyl-6-(2,3,4-triethoxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-ethyl-6-(2,3,5-triethoxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-ethyl-6-(2,3,6-triethoxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-ethyl-6-(2,4,6-triethoxy-phenyl)-hexanoic acid;
2-Aminomethyl-7-(2-ethoxy-phenyl)-4-methyl-heptanoic acid;
30 2-Aminomethyl-7-(3-ethoxy-phenyl)-4-methyl-heptanoic acid;
2-Aminomethyl-7-(4-ethoxy-phenyl)-4-methyl-heptanoic acid;
2-Aminomethyl-7-(2,3-diethoxy-phenyl)-4-methyl-heptanoic acid;

- 2-Aminomethyl-7-(2,4-diethoxy-phenyl)-4-methyl-heptanoic acid;
2-Aminomethyl-7-(2,5-diethoxy-phenyl)-4-methyl-heptanoic acid;
2-Aminomethyl-7-(2,6-diethoxy-phenyl)-4-methyl-heptanoic acid;
2-Aminomethyl-7-(3,4-diethoxy-phenyl)-4-methyl-heptanoic acid;
5 2-Aminomethyl-7-(3,5-diethoxy-phenyl)-4-methyl-heptanoic acid;
2-Aminomethyl-4-methyl-7-(2,3,4-triethoxy-phenyl)-heptanoic acid;
2-Aminomethyl-4-methyl-7-(2,3,5-triethoxy-phenyl)-heptanoic acid;
2-Aminomethyl-4-methyl-7-(2,3,6-triethoxy-phenyl)-heptanoic acid;
2-Aminomethyl-4-methyl-7-(2,4,6-triethoxy-phenyl)-heptanoic acid;
10 2-Aminomethyl-7-(2-ethoxy-phenyl)-4-ethyl-heptanoic acid;
2-Aminomethyl-7-(3-ethoxy-phenyl)-4-ethyl-heptanoic acid;
2-Aminomethyl-7-(4-ethoxy-phenyl)-4-ethyl-heptanoic acid;
2-Aminomethyl-7-(2,3-diethoxy-phenyl)-4-ethyl-heptanoic acid;
2-Aminomethyl-7-(2,4-diethoxy-phenyl)-4-ethyl-heptanoic acid;
15 2-Aminomethyl-7-(2,5-diethoxy-phenyl)-4-ethyl-heptanoic acid;
2-Aminomethyl-7-(2,6-diethoxy-phenyl)-4-ethyl-heptanoic acid;
2-Aminomethyl-7-(3,4-diethoxy-phenyl)-4-ethyl-heptanoic acid;
2-Aminomethyl-7-(3,5-diethoxy-phenyl)-4-ethyl-heptanoic acid;
2-Aminomethyl-4-ethyl-7-(2,3,4-triethoxy-phenyl)-heptanoic acid;
20 2-Aminomethyl-4-ethyl-7-(2,3,5-triethoxy-phenyl)-heptanoic acid;
2-Aminomethyl-4-ethyl-7-(2,3,6-triethoxy-phenyl)-heptanoic acid;
2-Aminomethyl-4-ethyl-7-(2,4,6-triethoxy-phenyl)-heptanoic acid;
2-Aminomethyl-4-(2-methyl-phenyl)-pentanoic acid;
2-Aminomethyl-4-(3-methyl-phenyl)-pentanoic acid;
25 2-Aminomethyl-4-(4-methyl-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2,3-dimethyl-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2,4-dimethyl-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2,5-dimethyl-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2,6-dimethyl-phenyl)-pentanoic acid;
30 2-Aminomethyl-4-(3,4-dimethyl-phenyl)-pentanoic acid;
2-Aminomethyl-4-(3,5-dimethyl-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2,3,4-trimethyl-phenyl)-pentanoic acid;

- 2-Aminomethyl-4-(2,3,5-trimethyl-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2,3,6-trimethyl-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2,4,6-trimethyl-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2-methyl-phenyl)-hexanoic acid;
5 2-Aminomethyl-4-(3-methyl-phenyl)-hexanoic acid;
2-Aminomethyl-4-(4-methyl-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,3-dimethyl-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,4-dimethyl-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,5-dimethyl-phenyl)-hexanoic acid;
10 2-Aminomethyl-4-(2,6-dimethyl-phenyl)-hexanoic acid;
2-Aminomethyl-4-(3,4-dimethyl-phenyl)-hexanoic acid;
2-Aminomethyl-4-(3,5-dimethyl-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,3,4-trimethyl-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,3,5-trimethyl-phenyl)-hexanoic acid;
15 2-Aminomethyl-4-(2,3,6-trimethyl-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,4,6-trimethyl-phenyl)-hexanoic acid;
2-Aminomethyl-5-(2-methyl-phenyl)-4-methyl-pentanoic acid;
2-Aminomethyl-5-(3-methyl-phenyl)-4-methyl-pentanoic acid;
2-Aminomethyl-5-(4-methyl-phenyl)-4-methyl-pentanoic acid;
20 2-Aminomethyl-5-(2,3-dimethyl-phenyl)-4-methyl-pentanoic acid;
2-Aminomethyl-5-(2,4-dimethyl-phenyl)-4-methyl-pentanoic acid;
2-Aminomethyl-5-(2,5-dimethyl-phenyl)-4-methyl-pentanoic acid;
2-Aminomethyl-5-(2,6-dimethyl-phenyl)-4-methyl-pentanoic acid;
2-Aminomethyl-5-(3,4-dimethyl-phenyl)-4-methyl-pentanoic acid;
25 2-Aminomethyl-5-(3,5-dimethyl-phenyl)-4-methyl-pentanoic acid;
2-Aminomethyl-4-methyl-5-(2,3,4-trimethyl-phenyl)-pentanoic acid;
2-Aminomethyl-4-methyl-5-(2,3,5-trimethyl-phenyl)-pentanoic acid;
2-Aminomethyl-4-methyl-5-(2,3,6-trimethyl-phenyl)-pentanoic acid;
2-Aminomethyl-4-methyl-5-(2,4,6-trimethyl-phenyl)-pentanoic acid;
30 2-Aminomethyl-5-(2-methyl-phenyl)-4-ethyl-pentanoic acid;
2-Aminomethyl-5-(3-methyl-phenyl)-4-ethyl-pentanoic acid;
2-Aminomethyl-5-(4-methyl-phenyl)-4-ethyl-pentanoic acid;

- 2-Aminomethyl-5-(2,3-dimethyl-phenyl)-4-ethyl-pentanoic acid;
2-Aminomethyl-5-(2,4-dimethyl-phenyl)-4-ethyl-pentanoic acid;
2-Aminomethyl-5-(2,5-dimethyl-phenyl)-4-ethyl-pentanoic acid;
2-Aminomethyl-5-(2,6-dimethyl-phenyl)-4-ethyl-pentanoic acid;
5 2-Aminomethyl-5-(3,4-dimethyl-phenyl)-4-ethyl-pentanoic acid;
2-Aminomethyl-5-(3,5-dimethyl-phenyl)-4-ethyl-pentanoic acid;
2-Aminomethyl-4-ethyl-5-(2,3,4-trimethyl-phenyl)-pentanoic acid;
2-Aminomethyl-4-ethyl-5-(2,3,5-trimethyl-phenyl)-pentanoic acid;
2-Aminomethyl-4-ethyl-5-(2,3,6-trimethyl-phenyl)-pentanoic acid;
10 2-Aminomethyl-4-ethyl-5-(2,4,6-trimethyl-phenyl)-pentanoic acid;
2-Aminomethyl-4-ethyl-5-(2,3,4,5-tetramethyl-phenyl)-pentanoic acid;
2-Aminomethyl-4-ethyl-5-(2,3,4,6-tetramethyl-phenyl)-pentanoic acid;
2-Aminomethyl-4-ethyl-5-(2,3,5,6-tetramethyl-phenyl)-pentanoic acid;
2-Aminomethyl-4-ethyl-5-pentamethylphenyl-pentanoic acid;
15 2-Aminomethyl-5-(2-methyl-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-5-(3-methyl-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-5-(4-methyl-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-5-(2,3-dimethyl-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-5-(2,4-dimethyl-phenyl)-4-methyl-hexanoic acid;
20 2-Aminomethyl-5-(2,5-dimethyl-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-5-(2,6-dimethyl-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-5-(3,4-dimethyl-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-5-(3,5-dimethyl-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-4-methyl-5-(2,3,4-trimethyl-phenyl)-hexanoic acid;
25 2-Aminomethyl-4-methyl-5-(2,3,5-trimethyl-phenyl)-hexanoic acid;
2-Aminomethyl-4-methyl-5-(2,3,6-trimethyl-phenyl)-hexanoic acid;
2-Aminomethyl-4-methyl-5-(2,4,6-trimethyl-phenyl)-hexanoic acid;
2-Aminomethyl-6-(2-methyl-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-6-(3-methyl-phenyl)-4-methyl-hexanoic acid;
30 2-Aminomethyl-6-(4-methyl-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-6-(2,3-dimethyl-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-6-(2,4-dimethyl-phenyl)-4-methyl-hexanoic acid;

- 2-Aminomethyl-6-(2,5-dimethyl-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-6-(2,6-dimethyl-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-6-(3,4-dimethyl-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-6-(3,5-dimethyl-phenyl)-4-methyl-hexanoic acid;
5 2-Aminomethyl-4-methyl-6-(2,3,4-trimethyl-phenyl)-hexanoic acid;
2-Aminomethyl-4-methyl-6-(2,3,5-trimethyl-phenyl)-hexanoic acid;
2-Aminomethyl-4-methyl-6-(2,3,6-trimethyl-phenyl)-hexanoic acid;
2-Aminomethyl-4-methyl-6-(2,4,6-trimethyl-phenyl)-hexanoic acid;
2-Aminomethyl-6-(2-methyl-phenyl)-4-ethyl-hexanoic acid;
10 2-Aminomethyl-6-(3-methyl-phenyl)-4-ethyl-hexanoic acid;
2-Aminomethyl-6-(4-methyl-phenyl)-4-ethyl-hexanoic acid;
2-Aminomethyl-6-(2,3-dimethyl-phenyl)-4-ethyl-hexanoic acid;
2-Aminomethyl-6-(2,4-dimethyl-phenyl)-4-ethyl-hexanoic acid;
2-Aminomethyl-6-(2,5-dimethyl-phenyl)-4-ethyl-hexanoic acid;
15 2-Aminomethyl-6-(2,6-dimethyl-phenyl)-4-ethyl-hexanoic acid;
2-Aminomethyl-6-(3,4-dimethyl-phenyl)-4-ethyl-hexanoic acid;
2-Aminomethyl-6-(3,5-dimethyl-phenyl)-4-ethyl-hexanoic acid;
2-Aminomethyl-4-ethyl-6-(2,3,4-trimethyl-phenyl)-hexanoic acid;
2-Aminomethyl-4-ethyl-6-(2,3,5-trimethyl-phenyl)-hexanoic acid;
20 2-Aminomethyl-4-ethyl-6-(2,3,6-trimethyl-phenyl)-hexanoic acid;
2-Aminomethyl-4-ethyl-6-(2,4,6-trimethyl-phenyl)-hexanoic acid;
2-Aminomethyl-7-(2-methyl-phenyl)-4-methyl-heptanoic acid;
2-Aminomethyl-7-(3-methyl-phenyl)-4-methyl-heptanoic acid;
2-Aminomethyl-7-(4-methyl-phenyl)-4-methyl-heptanoic acid;
25 2-Aminomethyl-7-(2,3-dimethyl-phenyl)-4-methyl-heptanoic acid;
2-Aminomethyl-7-(2,4-dimethyl-phenyl)-4-methyl-heptanoic acid;
2-Aminomethyl-7-(2,5-dimethyl-phenyl)-4-methyl-heptanoic acid;
2-Aminomethyl-7-(2,6-dimethyl-phenyl)-4-methyl-heptanoic acid;
2-Aminomethyl-7-(3,4-dimethyl-phenyl)-4-methyl-heptanoic acid;
30 2-Aminomethyl-7-(3,5-dimethyl-phenyl)-4-methyl-heptanoic acid;
2-Aminomethyl-4-methyl-7-(2,3,4-trimethyl-phenyl)-heptanoic acid;
2-Aminomethyl-4-methyl-7-(2,3,5-trimethyl-phenyl)-heptanoic acid;

- 2-Aminomethyl-4-methyl-7-(2,3,6-trimethyl-phenyl)-heptanoic acid;
2-Aminomethyl-4-methyl-7-(2,4,6-trimethyl-phenyl)-heptanoic acid;
2-Aminomethyl-7-(2-methyl-phenyl)-4-ethyl-heptanoic acid;
2-Aminomethyl-7-(3-methyl-phenyl)-4-ethyl-heptanoic acid;
5 2-Aminomethyl-7-(4-methyl-phenyl)-4-ethyl-heptanoic acid;
2-Aminomethyl-7-(2,3-dimethyl-phenyl)-4-ethyl-heptanoic acid;
2-Aminomethyl-7-(2,4-dimethyl-phenyl)-4-ethyl-heptanoic acid;
2-Aminomethyl-7-(2,5-dimethyl-phenyl)-4-ethyl-heptanoic acid;
2-Aminomethyl-7-(2,6-dimethyl-phenyl)-4-ethyl-heptanoic acid;
10 2-Aminomethyl-7-(3,4-dimethyl-phenyl)-4-ethyl-heptanoic acid;
2-Aminomethyl-7-(3,5-dimethyl-phenyl)-4-ethyl-heptanoic acid;
2-Aminomethyl-4-ethyl-7-(2,3,4-trimethyl-phenyl)-heptanoic acid;
2-Aminomethyl-4-ethyl-7-(2,3,5-trimethyl-phenyl)-heptanoic acid;
2-Aminomethyl-4-ethyl-7-(2,3,6-trimethyl-phenyl)-heptanoic acid;
15 2-Aminomethyl-4-ethyl-7-(2,4,6-trimethyl-phenyl)-heptanoic acid;
2-Aminomethyl-4-(2-hydroxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-(3-hydroxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-(4-hydroxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2,3-dihydroxy-phenyl)-pentanoic acid;
20 2-Aminomethyl-4-(2,4-dihydroxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2,5-dihydroxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2,6-dihydroxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-(3,4-dihydroxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-(3,5-dihydroxy-phenyl)-pentanoic acid;
25 2-Aminomethyl-4-(2,3,4-trihydroxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2,3,5-trihydroxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2,3,6-trihydroxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2,4,6-trihydroxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2-hydroxy-phenyl)-hexanoic acid;
30 2-Aminomethyl-4-(3-hydroxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-(4-hydroxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,3-dihydroxy-phenyl)-hexanoic acid;

- 2-Aminomethyl-4-(2,4-dihydroxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,5-dihydroxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,6-dihydroxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-(3,4-dihydroxy-phenyl)-hexanoic acid;
5 2-Aminomethyl-4-(3,5-dihydroxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,3,4-trihydroxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,3,5-trihydroxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,3,6-trihydroxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,4,6-trihydroxy-phenyl)-hexanoic acid;
10 2-Aminomethyl-5-(2-hydroxy-phenyl)-4-methyl-pentanoic acid;
2-Aminomethyl-5-(3-hydroxy-phenyl)-4-methyl-pentanoic acid;
2-Aminomethyl-5-(4-hydroxy-phenyl)-4-methyl-pentanoic acid;
2-Aminomethyl-5-(2,3-dihydroxy-phenyl)-4-methyl-pentanoic acid;
2-Aminomethyl-5-(2,4-dihydroxy-phenyl)-4-methyl-pentanoic acid;
15 2-Aminomethyl-5-(2,5-dihydroxy-phenyl)-4-methyl-pentanoic acid;
2-Aminomethyl-5-(2,6-dihydroxy-phenyl)-4-methyl-pentanoic acid;
2-Aminomethyl-5-(3,4-dihydroxy-phenyl)-4-methyl-pentanoic acid;
2-Aminomethyl-5-(3,5-dihydroxy-phenyl)-4-methyl-pentanoic acid;
2-Aminomethyl-4-methyl-5-(2,3,4-trihydroxy-phenyl)-pentanoic acid;
20 2-Aminomethyl-4-methyl-5-(2,3,5-trihydroxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-methyl-5-(2,3,6-trihydroxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-methyl-5-(2,4,6-trihydroxy-phenyl)-pentanoic acid;
2-Aminomethyl-5-(2-hydroxy-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-5-(3-hydroxy-phenyl)-4-methyl-hexanoic acid;
25 2-Aminomethyl-5-(4-hydroxy-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-5-(2,3-dihydroxy-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-5-(2,4-dihydroxy-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-5-(2,5-dihydroxy-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-5-(2,6-dihydroxy-phenyl)-4-methyl-hexanoic acid;
30 2-Aminomethyl-5-(3,4-dihydroxy-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-5-(3,5-dihydroxy-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-4-methyl-5-(2,3,4-trihydroxy-phenyl)-hexanoic acid;

- 2-Aminomethyl-4-methyl-5-(2,3,5-trihydroxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-methyl-5-(2,3,6-trihydroxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-methyl-5-(2,4,6-trihydroxy-phenyl)-hexanoic acid;
2-Aminomethyl-6-(2-hydroxy-phenyl)-4-methyl-hexanoic acid;
5 2-Aminomethyl-6-(3-hydroxy-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-6-(4-hydroxy-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-6-(2,3-dihydroxy-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-6-(2,4-dihydroxy-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-6-(2,5-dihydroxy-phenyl)-4-methyl-hexanoic acid;
10 2-Aminomethyl-6-(2,6-dihydroxy-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-6-(3,4-dihydroxy-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-6-(3,5-dihydroxy-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-4-methyl-6-(2,3,4-trihydroxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-methyl-6-(2,3,5-trihydroxy-phenyl)-hexanoic acid;
15 2-Aminomethyl-4-methyl-6-(2,3,6-trihydroxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-methyl-6-(2,4,6-trihydroxy-phenyl)-hexanoic acid;
2-Aminomethyl-5-(2-hydroxy-phenyl)-4-ethyl-pentanoic acid;
2-Aminomethyl-5-(3-hydroxy-phenyl)-4-ethyl-pentanoic acid;
2-Aminomethyl-5-(4-hydroxy-phenyl)-4-ethyl-pentanoic acid;
20 2-Aminomethyl-5-(2,3-dihydroxy-phenyl)-4-ethyl-pentanoic acid;
2-Aminomethyl-5-(2,4-dihydroxy-phenyl)-4-ethyl-pentanoic acid;
2-Aminomethyl-5-(2,5-dihydroxy-phenyl)-4-ethyl-pentanoic acid;
2-Aminomethyl-5-(2,6-dihydroxy-phenyl)-4-ethyl-pentanoic acid;
2-Aminomethyl-5-(3,4-dihydroxy-phenyl)-4-ethyl-pentanoic acid;
25 2-Aminomethyl-5-(3,5-dihydroxy-phenyl)-4-ethyl-pentanoic acid;
2-Aminomethyl-4-ethyl-5-(2,3,4-trihydroxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-ethyl-5-(2,3,5-trihydroxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-ethyl-5-(2,3,6-trihydroxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-ethyl-5-(2,4,6-trihydroxy-phenyl)-pentanoic acid;
30 2-Aminomethyl-4-ethyl-5-(2,3,4,5-tetrahydroxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-ethyl-5-(2,3,4,6-tetrahydroxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-ethyl-5-(2,3,5,6-tetrahydroxy-phenyl)-pentanoic acid;

- 2-Aminomethyl-4-ethyl-5-pentahydroxyphenyl-pentanoic acid;
2-Aminomethyl-6-(2-hydroxy-phenyl)-4-ethyl-hexanoic acid;
2-Aminomethyl-6-(3-hydroxy-phenyl)-4-ethyl-hexanoic acid;
2-Aminomethyl-6-(4-hydroxy-phenyl)-4-ethyl-hexanoic acid;
5 2-Aminomethyl-6-(2,3-dihydroxy-phenyl)-4-ethyl-hexanoic acid;
2-Aminomethyl-6-(2,4-dihydroxy-phenyl)-4-ethyl-hexanoic acid;
2-Aminomethyl-6-(2,5-dihydroxy-phenyl)-4-ethyl-hexanoic acid;
2-Aminomethyl-6-(2,6-dihydroxy-phenyl)-4-ethyl-hexanoic acid;
2-Aminomethyl-6-(3,4-dihydroxy-phenyl)-4-ethyl-hexanoic acid;
10 2-Aminomethyl-6-(3,5-dihydroxy-phenyl)-4-ethyl-hexanoic acid;
2-Aminomethyl-4-ethyl-6-(2,3,4-trihydroxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-ethyl-6-(2,3,5-trihydroxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-ethyl-6-(2,3,6-trihydroxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-ethyl-6-(2,4,6-trihydroxy-phenyl)-hexanoic acid;
15 2-Aminomethyl-7-(2-hydroxy-phenyl)-4-methyl-heptanoic acid;
2-Aminomethyl-7-(3-hydroxy-phenyl)-4-methyl-heptanoic acid;
2-Aminomethyl-7-(4-hydroxy-phenyl)-4-methyl-heptanoic acid;
2-Aminomethyl-7-(2,3-dihydroxy-phenyl)-4-methyl-heptanoic acid;
2-Aminomethyl-7-(2,4-dihydroxy-phenyl)-4-methyl-heptanoic acid;
20 2-Aminomethyl-7-(2,5-dihydroxy-phenyl)-4-methyl-heptanoic acid;
2-Aminomethyl-7-(2,6-dihydroxy-phenyl)-4-methyl-heptanoic acid;
2-Aminomethyl-7-(3,4-dihydroxy-phenyl)-4-methyl-heptanoic acid;
2-Aminomethyl-7-(3,5-dihydroxy-phenyl)-4-methyl-heptanoic acid;
2-Aminomethyl-4-methyl-7-(2,3,4-trihydroxy-phenyl)-heptanoic acid;
25 2-Aminomethyl-4-methyl-7-(2,3,5-trihydroxy-phenyl)-heptanoic acid;
2-Aminomethyl-4-methyl-7-(2,3,6-trihydroxy-phenyl)-heptanoic acid;
2-Aminomethyl-4-methyl-7-(2,4,6-trihydroxy-phenyl)-heptanoic acid;
2-Aminomethyl-7-(2-hydroxy-phenyl)-4-ethyl-heptanoic acid;
2-Aminomethyl-7-(3-hydroxy-phenyl)-4-ethyl-heptanoic acid;
30 2-Aminomethyl-7-(4-hydroxy-phenyl)-4-ethyl-heptanoic acid;
2-Aminomethyl-7-(2,3-dihydroxy-phenyl)-4-ethyl-heptanoic acid;
2-Aminomethyl-7-(2,4-dihydroxy-phenyl)-4-ethyl-heptanoic acid;

- 2-Aminomethyl-7-(2,5-dihydroxy-phenyl)-4-ethyl-heptanoic acid;
2-Aminomethyl-7-(2,6-dihydroxy-phenyl)-4-ethyl-heptanoic acid;
2-Aminomethyl-7-(3,4-dihydroxy-phenyl)-4-ethyl-heptanoic acid;
2-Aminomethyl-7-(3,5-dihydroxy-phenyl)-4-ethyl-heptanoic acid;
5 2-Aminomethyl-4-ethyl-7-(2,3,4-trihydroxy-phenyl)-heptanoic acid;
2-Aminomethyl-4-ethyl-7-(2,3,5-trihydroxy-phenyl)-heptanoic acid;
2-Aminomethyl-4-ethyl-7-(2,3,6-trihydroxy-phenyl)-heptanoic acid;
2-Aminomethyl-4-ethyl-7-(2,4,6-trihydroxy-phenyl)-heptanoic acid;
2-Aminomethyl-4-ethyl-7-(2,3,4,5-tetrahydroxy-phenyl)-heptanoic acid;
10 2-Aminomethyl-4-ethyl-7-(2,3,4,6-tetrahydroxy-phenyl)-heptanoic acid;
2-Aminomethyl-4-ethyl-7-(2,3,5,6-tetrahydroxy-phenyl)-heptanoic acid;
2-Aminomethyl-4-ethyl-7-pentahydroxyphenyl-heptanoic acid;
(2R,4R)-2-Aminomethyl-4-(2,4-difluoro-benzyl)-hexanoic acid;
(2S,4R)-2-Aminomethyl-4-(2,4-difluoro-benzyl)-hexanoic acid;
15 (2R,4S)-2-Aminomethyl-7-(2,4-difluoro-phenyl)-4-ethyl-heptanoic acid;
(2S,4S)-2-Aminomethyl-7-(2,4-difluoro-phenyl)-4-ethyl-heptanoic acid;
(2R,4S)-2-Aminomethyl-4-(2,4-difluoro-benzyl)-hexanoic acid;
(2S,4S)-2-Aminomethyl-4-(2,4-difluoro-benzyl)-hexanoic acid;
(2S,4S)-2-Aminomethyl-4-(3,5-difluoro-benzyl)-hexanoic acid;
20 (2S,4S)-2-Aminomethyl-4-(2-fluoro-benzyl)-hexanoic acid;
(2S,4S)-2-Aminomethyl-5-(2,4-difluoro-phenyl)-4-methyl-pentanoic
acid;
(2S)-2-Aminomethyl-5-(2,4-difluoro-phenyl)-pentanoic acid;
(2S,4S)-2-Aminomethyl-4-(2,6-difluoro-benzyl)-hexanoic acid;
25 (2S,4S)-2-Aminomethyl-4-(4-fluoro-benzyl)-hexanoic acid;
(2S,4S)-2-Aminomethyl-4-(2,5-difluoro-benzyl)-hexanoic acid;
(2S,4S)-2-Aminomethyl-4-(3-fluoro-benzyl)-hexanoic acid;
(2S,4S)-2-Aminomethyl-4-pentafluorophenylmethyl-hexanoic acid;
(2S,4R)-2-Aminomethyl-7-(2,4-difluoro-phenyl)-4-ethyl-heptanoic acid;
30 (2S,4S)-2-Aminomethyl-4-(4-trifluoromethyl-benzyl)-hexanoic acid;
2-Aminomethyl-4-(4-methoxy-2-methyl-benzyl)-hexanoic acid;

2-Aminomethyl-5-(4-methoxy-2-methyl-phenyl)-4-methyl-pentanoic acid;

2-Aminomethyl-4-(4-methoxy-3-methyl-benzyl)-hexanoic acid; and

2-Aminomethyl-5-(4-methoxy-3-methyl-phenyl)-4-methyl-pentanoic acid.

5

Other compounds of formula V include the following compounds, and their pharmaceutically acceptable salts:

2-Aminomethyl-4-ethyl-5-methyl-hexanoic acid;

2-Aminomethyl-4-ethyl-3-methyl-hexanoic acid;

10

2-Aminomethyl-3,4-dimethyl-hexanoic acid;

2-Aminomethyl-3-ethyl-4-methyl-hexanoic acid;

2-Aminomethyl-4-ethyl-3-methyl-heptanoic acid;

2-Aminomethyl-3,4-dimethyl-octanoic acid;

2-Aminomethyl-3-methyl-pentanoic acid;

15

2-Aminomethyl-3-methyl-hexanoic acid;

2-Aminomethyl-3-methyl-heptanoic acid;

2-Aminomethyl-3,4-dimethyl-pentanoic acid;

2-Aminomethyl-3,5-dimethyl-hexanoic acid;

2-Aminomethyl-3,6-dimethyl-heptanoic acid;

20

2-Aminomethyl-3,5,5-trimethyl-hexanoic acid;

2-Aminomethyl-3-cyclopropyl-butyric acid;

2-Aminomethyl-3-cyclopentyl-butyric acid;

2-Aminomethyl-3-cyclohexyl-butyric acid;

2-Aminomethyl-4-cyclohexyl-3-methyl-butyric acid;

25

2-Aminomethyl-5-cyclohexyl-3-methyl-pentanoic acid;

2-Aminomethyl-3-methyl-4-(4-methyl-cyclohexyl)-butyric acid;

2-Aminomethyl-3-ethyl-pentanoic acid;

2-Aminomethyl-3-ethyl-hexanoic acid;

2-Aminomethyl-3-ethyl-heptanoic acid;

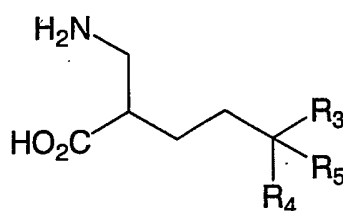
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2-Aminomethyl-3-ethyl-4-methyl-pentanoic acid;

2-Aminomethyl-3-cyclohexylmethyl-pentanoic acid;

2-Aminomethyl-5-(4-methoxy-cyclohexyl)-3-methyl-pentanoic acid;

2-Aminomethyl-5-(4-methoxy-phenyl)-3-methyl-pentanoic acid;
 2-Aminomethyl-4-(2-methoxy-phenyl)-3-methyl-butyric acid;
 2-Aminomethyl-4-(4-methoxy-phenyl)-3-methyl-butyric acid;
 2-Aminomethyl-3-phenyl-butyric acid;
 2-Aminomethyl-3-methyl-4-phenyl-butyric acid;
 2-Aminomethyl-3-methyl-5-phenyl-pentanoic acid;
 2-Aminomethyl-3-methyl-4-(3-trifluoromethyl-phenyl)-butyric acid;
 2-Aminomethyl-3-(4-ethyl-phenyl)-butyric acid;
 2-Aminomethyl-3-(2,5-dimethyl-phenyl)-butyric acid;
 2-Aminomethyl-3-methyl-4-p-tolyl-butyric acid;
 2-Aminomethyl-3-m-tolyl-butyric acid;
 2-Aminomethyl-3-benzyl-pentanoic acid; and
 2-Aminomethyl-4-(4-fluoro-phenyl)-3-methyl-butyric acid.
 This invention also provides compounds of formula VI



VI

and their pharmaceutically acceptable salts, wherein R_3 , R_4 , and R_5 are as defined above in formula I, with the proviso that R_3 , R_4 , and R_5 are not simultaneously hydrogen atoms.

Specific compounds of formula VI include the following compounds and their pharmaceutically acceptable salts:

2-Aminomethyl-5-cyclopropyl-hexanoic acid;
 2-Aminomethyl-5-cyclobutyl-hexanoic acid;
 2-Aminomethyl-5-cyclopentyl-hexanoic acid;
 2-Aminomethyl-5-cyclohexyl-hexanoic acid;
 2-Aminomethyl-5-phenyl-hexanoic acid;
 2-Aminomethyl-5-(3-chloro-phenyl)-hexanoic acid;
 2-Aminomethyl-5-(3-trifluoromethyl-phenyl)-hexanoic acid;

- 2-Aminomethyl-5-(4-trifluoromethyl-phenyl)-hexanoic acid;
2-Aminomethyl-5-cyclopropyl-heptanoic acid;
2-Aminomethyl-5-cyclobutyl-heptanoic acid;
2-Aminomethyl-5-cyclopentyl-heptanoic acid;
5 2-Aminomethyl-5-cyclohexyl-heptanoic acid;
2-Aminomethyl-5-phenyl-heptanoic acid;
2-Aminomethyl-5-(3-chloro-phenyl)-heptanoic acid;
2-Aminomethyl-5-(3-trifluoromethyl-phenyl)-heptanoic acid;
2-Aminomethyl-5-(4-trifluoromethyl-phenyl)-heptanoic acid;
10 2-Aminomethyl-5-methyl-6-phenyl-hexanoic acid;
2-Aminomethyl-6-(3-chloro-phenyl)-5-methyl-hexanoic acid;
2-Aminomethyl-5-methyl-6-(3-trifluoromethyl-phenyl)-hexanoic acid;
2-Aminomethyl-5-methyl-6-(4-trifluoromethyl-phenyl)-hexanoic acid;
2-Aminomethyl-5-cyclopropylmethyl-heptanoic acid;
15 2-Aminomethyl-5-cyclobutylmethyl-heptanoic acid;
2-Aminomethyl-5-cyclopentylmethyl-heptanoic acid;
2-Aminomethyl-5-cyclohexylmethyl-heptanoic acid;
2-Aminomethyl-5-benzyl-heptanoic acid;
2-Aminomethyl-5-(3-chloro-benzyl)-heptanoic acid;
20 2-Aminomethyl-5-(3-trifluoromethyl-benzyl)-heptanoic acid;
2-Aminomethyl-5-(4-trifluoromethyl-benzyl)-heptanoic acid;
2-Aminomethyl-5-methyl-7-phenyl-heptanoic acid;
2-Aminomethyl-7-(3-chloro-phenyl)-5-methyl-heptanoic acid;
2-Aminomethyl-5-methyl-7-(3-trifluoromethyl-phenyl)-heptanoic acid;
25 2-Aminomethyl-5-methyl-7-(4-trifluoromethyl-phenyl)-heptanoic acid;
2-Aminomethyl-7-cyclopropyl-5-ethyl-heptanoic acid;
2-Aminomethyl-7-cyclobutyl-5-ethyl-heptanoic acid;
2-Aminomethyl-7-cyclopentyl-5-ethyl-heptanoic acid;
2-Aminomethyl-7-cyclohexyl-5-ethyl-heptanoic acid;
30 2-Aminomethyl-5-ethyl-7-phenyl-heptanoic acid;
2-Aminomethyl-7-(3-chloro-phenyl)-5-ethyl-heptanoic acid;
2-Aminomethyl-5-ethyl-7-(3-trifluoromethyl-phenyl)-heptanoic acid;

2-Aminomethyl-5-ethyl-7-(4-trifluoromethyl-phenyl)-heptanoic acid;
2-Aminomethyl-5,5-dimethyl-heptanoic acid;
2-Aminomethyl-5,5-dimethyl-octanoic acid; and
2-Aminomethyl-5,5-dimethyl-nonanoic acid.

5 This invention also provides pharmaceutical compositions comprising a therapeutically effective amount of a compound of formula I, II, III, IV, V or VI, or a pharmaceutically acceptable salt thereof, and a pharmaceutically acceptable carrier.

10 This invention also provides a method of treating a disorder or condition in a mammal, including a human, the disorder or condition selected from epilepsy, faintness attacks, fibromyalgia, hypokinesia, cranial disorders, hot flashes, essential tremor, chemical dependencies and addictions, (*e.g.*, dependencies on or addictions to alcohol, amphetamines (or amphetamine-like substances), caffeine, cannabis, cocaine, heroin, hallucinogens, tobacco,
15 inhalants and aerosol propellants, nicotine, opioids, phenylglycidine derivatives, sedatives, hypnotics, benzodiazepines and other anxiolytics), and withdrawal symptoms associated with such dependencies or addictions, addictive behaviors such as gambling; migraine, spasticity including muscle spasticity and hypotonia with paralysis, arthritis, irritable bowel syndrome
20 (IBS), chronic pain, acute pain, neuropathic pain, post herpetic neuralgia, lower back pain, surgical pain, vascular headache, chronic headache, sinus headache, inflammatory disorders (*e.g.*, rheumatoid arthritis, osteoarthritis, disease modification of osteoarthritis disease, psoriasis), diuresis, premenstrual syndrome, premenstrual dysphoric disorder, tinnitus, and gastric
25 damage. The method comprises administering to a mammal in need of such treatment a therapeutically effective amount of a compound of formula I, II, III, IV, V or VI, or a pharmaceutically acceptable salt thereof.

30 The present invention also provides a method of treating neurodegenerative disorders termed acute brain injury. These include but are not limited to stroke, head trauma, and asphyxia. Stroke refers to a cerebral vascular disease and may also be referred to as a cerebral vascular incident (CVA) and includes acute thromboembolic stroke. Stroke includes both focal

and global ischemia. Also, included are transient cerebral ischemic attacks and other cerebral vascular problems accompanied by cerebral ischemia, such as those that occur in patients undergoing carotid endarterectomy or other cerebrovascular or vascular surgical procedures, or diagnostic vascular procedures including cerebral angiography and the like.

Compounds of formula I, II, III, IV, V or VI, are also useful in the treatment of head trauma, spinal cord trauma, or injury from general anoxia, hypoxia, hypoglycemia, hypotension as well as similar injuries seen during procedures from embolus, hyperfusion, and hypoxia. They are also useful in preventing neuronal damage that occurs during cardiac bypass surgery, in incidents of intracranial hemorrhage, in perinatal asphyxia, in cardiac arrest, and status epilepticus.

This invention also provides a method of treating a disorder or condition in a mammal, including a human, the disorder or condition selected from the group consisting of delirium, dementia, and amnestic and other cognitive or neurodegenerative disorders, such as Parkinson's disease (PD), Huntington's disease (HD), Alzheimer's disease, senile dementia, dementia of the Alzheimer's type, memory disorder, vascular dementia, and other dementias, for example, due to HIV disease, head trauma, Parkinson's disease, Huntington's disease, Pick's disease, Creutzfeldt-Jakob disease, or due to multiple aetiologies; movement disorders such as akinesias, dyskinesias, including familial paroxysmal dyskinesias, spasticities, Tourette's syndrome, Scott syndrome, PALSYS and akinetic-rigid syndrome; extra-pyramidal movement disorders such as medication-induced movement disorders, for example, neuroleptic-induced Parkinsonism, neuroleptic malignant syndrome, neuroleptic-induced acute dystonia, neuroleptic-induced acute akathisia, neuroleptic-induced tardive dyskinesia and medication-induced postural tremor; Down's syndrome; demyelinating diseases such as multiple sclerosis (MS) and amyotrophic lateral sclerosis (ALS), peripheral neuropathy, for example diabetic and chemotherapy-induced neuropathy, and postherpetic neuralgia, trigeminal neuralgia, segmental or intercostal neuralgia and other neuralgias; and cerebral vascular disorders due to acute

or chronic cerebrovascular damage such as cerebral infarction, subarachnoid haemorrhage or cerebral oedema. The method comprises administering to a mammal in need of such treatment a therapeutically effective amount of a compound of formula I, II, III, IV, V or VI, or a pharmaceutically acceptable salt thereof.

This invention also provides for improving cognition in mammals, including humans, having AD, PD, and fibromyalgia by enhancing the amount and the quality of sleep. The method comprises administering to a mammal in need of improved cognition a therapeutically effective amount of a compound of formula I, II, III, IV, V or VI, or a pharmaceutically acceptable salt thereof.

This invention also provides a method of treating pain in a mammal, including a human, the method comprising administering to a mammal in need of such treatment a therapeutically effective amount of a compound of formula I, II, III, IV, V or VI, or a pharmaceutically acceptable salt thereof. Pain refers to acute as well as chronic pain. Acute pain is usually short-lived and is associated with hyperactivity of the sympathetic nervous system. Examples are postoperative pain and allodynia. Chronic pain is usually defined as pain persisting from three to six months and includes somatogenic pain and psychogenic pain. Other pain is nociceptive.

Examples of the types of pain that can be treated with the compounds of formula I, II, III, IV, V or VI, and their pharmaceutically acceptable salts, include pain resulting from soft tissue and peripheral damage, such as acute trauma, pain associated with osteoarthritis and rheumatoid arthritis, musculoskeletal pain, such as pain experienced after trauma; spinal pain, dental pain, myofascial pain syndromes, episiotomy pain, and pain resulting from burns; deep and visceral pain, such as heart pain, muscle pain, eye pain, orofacial pain, for example, odontalgia, abdominal pain, gynaecological pain, for example, dysmenorrhoea, labour pain and pain associated with endometriosis; pain associated with nerve and root damage, such as pain associated with peripheral nerve disorders, for example, nerve entrapment and brachial plexus avulsions, amputation, peripheral neuropathies, tic

douloureux, atypical facial pain, nerve root damage, trigeminal neuralgia, neuropathic lower back pain, HIV related neuropathic pain, cancer related neuropathic pain, diabetic neuropathic pain, and arachnoiditis; neuropathic and non-neuropathic pain associated with carcinoma, often referred to as cancer pain; central nervous system pain, such as pain due to spinal cord or brain stem damage; lower back pain; sciatica; phantom limb pain, headache, including migraine and other vascular headaches, acute or chronic tension headache, cluster headache, temporomandibular pain and maxillary sinus pain; pain resulting from ankylosing spondylitis and gout; pain caused by increased bladder contractions; post operative pain; scar pain; and chronic non-neuropathic pain such as pain associated with fibromyalgia, HIV, rheumatoid and osteoarthritis, anthralgia and myalgia, sprains, strains and trauma such as broken bones; and post surgical pain.

Still other pain is caused by injury or infection of peripheral sensory nerves. It includes, but is not limited to pain from peripheral nerve trauma, herpes virus infection, diabetes mellitus, fibromyalgia, causalgia, plexus avulsion, neuroma, limb amputation, and vasculitis. Neuropathic pain is also caused by nerve damage from chronic alcoholism, human immunodeficiency virus infection, hypothyroidism, uremia, or vitamin deficiencies. Neuropathic pain includes, but is not limited to pain caused by nerve injury such as, for example, the pain diabetics suffer from.

Psychogenic pain is that which occurs without an organic origin such as low back pain, atypical facial pain, and chronic headache.

Other types of pain include inflammatory pain, osteoarthritic pain, trigeminal neuralgia, cancer pain, diabetic neuropathy, restless leg syndrome, acute herpetic and postherpetic neuralgia, causalgia, brachial plexus avulsion, occipital neuralgia, gout, phantom limb, burn, and other forms of neuralgia, neuropathic and idiopathic pain syndrome.

This invention also provides a method of treating depression, which comprises administering to a mammal, including a human, in need of such treatment a therapeutically effective amount of a compound of formula I, II, III, IV, V or VI, or a pharmaceutically acceptable salt thereof. Depression can be

the result of organic disease, secondary to stress associated with personal loss, or idiopathic in origin. There is a strong tendency for familial occurrence of some forms of depression suggesting a mechanistic cause for at least some forms of depression. The diagnosis of depression is made primarily by quantification of alterations in patients' mood. These evaluations of mood are generally performed by a physician or quantified by a neuropsychologist using validated rating scales, such as the Hamilton Depression Rating Scale or the Brief Psychiatric Rating Scale. Numerous other scales have been developed to quantify and measure the degree of mood alterations in patients with depression, such as insomnia, difficulty with concentration, lack of energy, feelings of worthlessness, and guilt. The standards for diagnosis of depression as well as all psychiatric diagnoses are collected in *Diagnostic and Statistical Manual of Mental Disorders* (4th ed., 1994), which is referred to as the DSM-IV-R Manual, and is published by the American Psychiatric Association.

This invention also provides a method of treating a disorder or condition in a mammal, including a human, the disorder or condition selected from the group consisting of mood disorders, such as depression, or more particularly, depressive disorders, for example, single episodic or recurrent major depressive disorders, dysthymic disorders, depressive neurosis and neurotic depression, melancholic depression, including anorexia, weight loss, including weight loss associated with anorexia, cancer, old age and/or frailty, insomnia, early morning waking and psychomotor retardation, atypical depression (or reactive depression), including increased appetite, hypersomnia, psychomotor agitation or irritability, seasonal affective disorder and pediatric depression; or bipolar disorders or manic depression, for example, bipolar I disorder, bipolar II disorder and cyclothymic disorder; conduct disorder and disruptive behavior disorder; anxiety disorders, such as panic disorder with or without agoraphobia, agoraphobia without history of panic disorder, specific phobias, for example, specific animal phobias, social anxiety disorder, social phobia, fear of flying, obsessive-compulsive disorder, stress disorders, including post-traumatic stress disorder and acute stress

disorder, and generalized anxiety disorders; borderline personality disorder; schizophrenia and other psychotic disorders, for example, schizophreniform disorders, schizoaffective disorders, delusional disorders, brief psychotic disorders, shared psychotic disorders, psychotic disorders with delusions or hallucinations, psychotic episodes of anxiety, anxiety associated with psychosis, psychotic mood disorders such as severe major depressive disorder; mood disorders associated with psychotic disorders such as acute mania and depression associated with bipolar disorder, mood disorders associated with schizophrenia; behavioral disturbances associated with mental retardation, autistic disorder, and conduct disorder. The method comprises administering to a mammal in need of such treatment a therapeutically effective amount of a compound of formula I, II, III, IV, V or VI, or a pharmaceutically acceptable salt thereof.

The compounds of the invention are also useful in the treatment of sleep disorders. Sleep disorders are disturbances that affect the ability to fall and/or stay asleep, that involve sleeping too much, or that result in abnormal behavior associated with sleep. The disorders include, for example, insomnia, drug-associated sleeplessness, hypersomnia, narcolepsy, sleep apnea syndromes, parasomnias, restless leg syndrome, jet lag, periodic limb movement disorder, and altered sleep architecture.

This invention also provides a method of treating a disorder or condition in a mammal, including a human, the disorder or condition selected from the group consisting of sleep disorders (e.g., insomnia, drug-associated sleeplessness, REM sleep disorders, hypersomnia, narcolepsy, sleep-wake cycle disorders, sleep apnea syndromes, parasomnias, and sleep disorders associated with shift work and irregular work hours). The method comprises administering to a mammal in need of such treatment a therapeutically effective amount of a compound of formula I, II, III, IV, V or VI, or a pharmaceutically acceptable salt thereof.

Compounds of formulas I, II, III, IV, V or VI contain at least one stereogenic (chiral) center and therefore may exist in different enantiomeric and diastereomeric forms. This invention includes all stereoisomers, including

optical isomers, of the compounds of formula I, II, III, IV, V or VI. Samples of the compounds may exist as racemic mixtures, as individual enantiomers and diastereoisomers, and as mixtures thereof. The invention also includes all pharmaceutical compositions and methods of treatment defined above that
5 contain or employ stereoisomers of the compounds of formula I, II, III, IV, V or VI.

Compounds with one stereogenic center may exist as a racemic (equimolar) mixture, as a non-equimolar mixture of isomers, and as pure enantiomers having S- or R-stereoconfiguration. Compounds with two
10 stereogenic centers may exist as a racemic mixture, as a non-equimolar mixture of isomers, and as pure enantiomers having SS, RR, SR or RS stereoconfiguration. Compounds with three stereogenic centers may exist as a racemic mixture, as a non-equimolar mixture of isomers, and as pure enantiomers having RRR, SSS, SRR, RSS, RSR, SRS, RRS or SSR
15 stereoconfiguration. Individual isomers may be obtained by known methods, such as optical resolution, optically selective reaction, or chromatographic separation in the preparation of the final product or its intermediate. Individual enantiomers of the compounds of this invention may have advantages, as compared with racemic mixtures of these compounds, in the treatment of
20 various disorders or conditions.

The present invention also includes isotopically labeled compounds, which are identical to those recited in formula I, II, III, IV, V, or VI but for the fact that one or more atoms are replaced by an atom having an atomic mass or mass number different from the atomic mass or mass number usually
25 found in nature. Examples of isotopes that can be incorporated into compounds of the present invention include isotopes of hydrogen, carbon, nitrogen, oxygen, phosphorous, sulfur, fluorine and chlorine, such as ^2H , ^3H , ^{13}C , ^{11}C , ^{14}C , ^{15}N , ^{18}O , ^{17}O , ^{31}P , ^{32}P , ^{35}S , ^{18}F , and ^{36}Cl , respectively. Compounds of the present invention, prodrugs thereof, and pharmaceutically
30 acceptable salts of said compounds or of said prodrugs which contain the aforementioned isotopes and/or other isotopes of other atoms are within the scope of this invention. Certain isotopically labeled compounds of the present

invention, for example those into which radioactive isotopes such as ^3H and ^{14}C are incorporated, are useful in drug and/or substrate tissue distribution assays. Tritiated, i.e., ^3H , and carbon-14, i.e., ^{14}C , isotopes are particularly preferred for their ease of preparation and detectability. Further, substitution with heavier isotopes such as deuterium, i.e., ^2H , can afford certain therapeutic advantages resulting from greater metabolic stability, for example increased *in vivo* half-life or reduced dosage requirements and, hence, may be preferred in some circumstances. Isotopically labeled compounds of formula I, II, III, IV, V, or VI of this invention and prodrugs thereof can generally be prepared by carrying out the procedures disclosed in the Schemes and/or in the Examples and Preparations below, by substituting a readily available isotopically labeled reagent for a non-isotopically labeled reagent.

Unless otherwise indicated, this disclosure uses definitions provided below. Some of the definitions and formulae may include a “-” (dash) to indicate a bond between atoms or a point of attachment to a named or unnamed atom or group of atoms. Other definitions and formulae may include an “=” (equal sign) or “≡” (identity sign) to indicate a double bond or a triple bond, respectively. Certain formulae may also include an “*” (asterisk) to indicate a stereogenic (chiral) center. Such formulae may refer to the racemate or to individual enantiomers, which may or may not be substantially pure.

The term “substituted” when used in connection with a compound, substituent, or moiety, indicates that one or more hydrogen atoms have been replaced with one or more non-hydrogen atoms or groups, provided that valence requirements are met and that a chemically stable compound results from the substitution.

The term “alkyl” refers to straight chain and branched saturated hydrocarbon groups, generally having a specified number of carbon atoms; i.e., (C₁-C₆)alkyl refers to an alkyl group having 1, 2, 3, 4, 5, or 6 carbon atoms. Examples of alkyl groups include, without limitation, methyl, ethyl, n-propyl, i-propyl, n-butyl, s-butyl, i-butyl, t-butyl, pent-1-yl, pent-2-yl, pent-3-yl,

3-methylbut-1-yl, 3-methylbut-2-yl, 2-methylbut-2-yl, 2,2,2-trimethyleth-1-yl, n-hexyl, 3-ethylbutyl, and the like.

The term "cycloalkyl" refers to saturated monocyclic and bicyclic hydrocarbon rings, generally having a specified number of carbon atoms that
5 comprise the ring; i.e., (C₃-C₆)cycloalkyl refers to a cycloalkyl group having 3, 4, 5, or 6 carbon atoms as ring members. The cycloalkyl may be attached to a parent group or to a substrate at any ring atom, unless such attachment would violate valence requirements. Likewise, the cycloalkyl groups may include one or more non-hydrogen substituents unless such substitution
10 would violate valence requirements. Useful substituents include, without limitation, alkyl, as defined above, and hydroxy, mercapto, nitro, halogen, and amino.

Examples of monocyclic cycloalkyl groups include, without limitation, cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl, and the like. Examples of
15 bicyclic cycloalkyl groups include, without limitation, bicyclo[1.1.0]butyl, bicyclo[1.1.1]pentyl, bicyclo[2.1.0]pentyl, bicyclo[2.1.1]hexyl, bicyclo[3.1.0]hexyl, bicyclo[2.2.1]heptyl, bicyclo[3.2.0]heptyl, bicyclo[3.1.1]heptyl, bicyclo[4.1.0]heptyl, bicyclo[2.2.2]octyl, bicyclo[3.2.1]octyl, bicyclo[4.1.1]octyl, bicyclo[3.3.0]octyl, bicyclo[4.2.0]octyl,
20 bicyclo[3.3.1]nonyl, bicyclo[4.2.1]nonyl, bicyclo[4.3.0]nonyl, bicyclo[3.3.2]decyl, bicyclo[4.2.2]decyl, bicyclo[4.3.1]decyl, bicyclo[4.4.0]decyl, bicyclo[3.3.3]undecyl, bicyclo[4.3.2]undecyl, bicyclo[4.3.3]dodecyl, and the like.

The term "alkoxy" refers to alkyl-O-, where alkyl is defined above.
25 Examples of alkoxy groups include, without limitation, methoxy, ethoxy, n-propoxy, i-propoxy, n-butoxy, s-butoxy, t-butoxy, n-pentoxy, s-pentoxy, and the like.

The term "treating" refers to reversing, alleviating, inhibiting the progress of, or preventing the disorder or condition to which such term
30 applies, or preventing one or more symptoms of such condition or disorder. The term "treatment," as used herein, refers to the act of treating, as "treating" is defined immediately above.

The phrase "leaving group" refers to any group that leaves a molecule during a fragmentation process, including substitution reactions, elimination reactions, and addition-elimination reactions. Leaving groups may be nucleofugal, in which the group leaves with a pair of electrons that formerly served as the bond between the leaving group and the molecule, or may be electrofugal, in which the group leaves without the pair of electrons. The ability of a nucleofugal leaving group to leave depends on its base strength, with the strongest bases being the poorest leaving groups. Common nucleofugal leaving groups include nitrogen (e.g., from diazonium salts), sulfonates (including tosylates, brosylates, nosylates, and mesylates), triflates, nonaflates, tresylates, halide ions, carboxylate anions, phenolate ions, and alkoxides. Some stronger bases, such as NH_2^- and OH^- can be made better leaving groups by treatment with an acid. Common electrofugal leaving groups include the proton, CO_2 , and metals.

The phrase "enantiomeric excess" or "ee" is a measure, for a given sample, of the excess of one enantiomer over a racemic sample of a chiral compound and is expressed as a percentage. Enantiomeric excess is defined as $100 \times (er - 1) / (er + 1)$, where "er" is the ratio of the more abundant enantiomer to the less abundant enantiomer.

The term "enantioselectivity" refers to a given reaction (e.g., hydrogenation) that yields more of one enantiomer than another.

The phrase "high level of enantioselectivity" refers to a given reaction that yields product with an ee of at least about 80 %.

The phrase "enantiomerically enriched" refers to a sample of a chiral compound, which has more of one enantiomer than another. The degree of enrichment is measured by er or ee.

The phrase "substantially pure enantiomer" or "substantially enantiopure" refers to a sample of an enantiomer having an ee of about 90 % or greater.

The phrase "enantiomerically pure" or "enantiopure" refers to a sample of an enantiomer having an ee of about 99 % or greater.

The phrase "opposite enantiomer" refers to a molecule that is a non-superimposable mirror image of a reference molecule, which may be obtained by inverting all of the stereogenic centers of the reference molecule. For example, if the reference molecule has S absolute stereochemical configuration, then the opposite enantiomer has R absolute stereochemical configuration. Likewise, if the reference molecule has S,S absolute stereochemical configuration, then the opposite enantiomer has R,R stereochemical configuration, and so on.

The phrase "pharmaceutically acceptable salts, esters, amides, and prodrugs" refers to acid or base addition salts, esters, amides, zwitterionic forms, where possible, and prodrugs of claimed and disclosed compounds, which are within the scope of sound medical judgment, suitable for use in contact with the tissues of patients without undue toxicity, irritation, allergic response, and the like, commensurate with a reasonable benefit/risk ratio, and effective for their intended use.

Because amino acids are amphoteric, pharmacologically compatible salts can be salts of appropriate inorganic or organic acids, for example, hydrochloric, sulfuric, phosphoric, acetic, oxalic, lactic, citric, malic, salicylic, malonic, maleic, succinic, and ascorbic. Starting from corresponding hydroxides or carbonates, salts with alkali metals or alkaline earth metals, for example, sodium, potassium, magnesium, or calcium are formed. Salts with quaternary ammonium ions can also be prepared with, for example, the tetramethyl-ammonium ion.

The effectiveness of an orally administered drug is dependent upon the drug's efficient transport across the mucosal epithelium and its stability in entero-hepatic circulation. Drugs that are effective after parenteral administration but less effective orally, or whose plasma half-life is considered too short, may be chemically modified into a prodrug form.

A prodrug is a drug that has been chemically modified and may be biologically inactive at its site of action, but which may be degraded or modified by one or more enzymatic or other in vivo processes to the parent bioactive form.

This chemically modified drug, or prodrug, should have a different pharmacokinetic profile than the parent drug, enabling easier absorption across the mucosal epithelium, better salt formulation, improved solubility, enhanced systemic stability (for an increase in plasma half-life, for example), and the like. These chemical modifications include, but are not limited to (1) ester or amide derivatives which may be cleaved by, for example, esterases or lipases; (2) peptides, which may be recognized by specific or nonspecific proteinases; (3) derivatives that accumulate at a site of action through membrane selection of a prodrug form or modified prodrug form; and (4) any combination of (1) to (3). The ester or amides prodrugs may be derived from the carboxylic acid moiety of the parent drug molecule or from the carboxylic acid moiety or the amine moiety of the parent drug molecule, respectively, by known means. In addition, the peptide prodrug may be coupled to the parent drug molecule via amide bond formation with the amine or carboxylic acid moiety of the parent drug molecule using known techniques.

Current research in animal experiments has shown that the oral absorption of certain drugs may be increased by the preparation of "soft" quaternary salts. The quaternary salt is termed a "soft" quaternary salt since, unlike normal quaternary salts, *e.g.*, $R-N^+(CH_3)_3$, it can release the active drug upon hydrolysis.

Soft quaternary salts have useful physical properties compared with the basic drug or its salts. Water solubility may be increased compared with other salts, such as the hydrochloride, but more important there may be an increased absorption of the drug from the intestine. Increased absorption is probably due to the fact that the soft quaternary salt has surfactant properties and is capable of forming micelles and unionized ion pairs with bile acids, *etc.*, which are able to penetrate the intestinal epithelium more effectively. The prodrug, after absorption, is rapidly hydrolyzed with release of the active parent drug.

Prodrugs of compounds of formula I, II, III, IV, V or VI are included within the scope of this invention. For a discussion of prodrugs and soft drugs, see E. Palomino, *Drugs of the Future* 15(4):361-68 (1990). See also,

T. Higuchi and V. Stella, "Pro-drugs as Novel Delivery Systems," *ACS Symposium Series* 14 (1975); E.B. Roche (ed.), *Bioreversible Carriers in Drug Design* (1987); and H. Bundgaard, *Design of Prodrugs* (1985).

5 Certain of the compounds of the present invention can exist in unsolvated forms as well as solvated forms, including hydrated forms. In general, the solvated forms, including hydrated forms, are equivalent to unsolvated forms and are intended to be encompassed within the scope of the present invention.

DETAILED DESCRIPTION

10 The compounds of this invention can be prepared as described below. In the reaction schemes and discussion that follow, structural formulas I, II, III, IV, V, or VI, and the radicals R₁, R₂, R₃, R₄, R₅ and R₆, unless otherwise indicated, are as defined above.

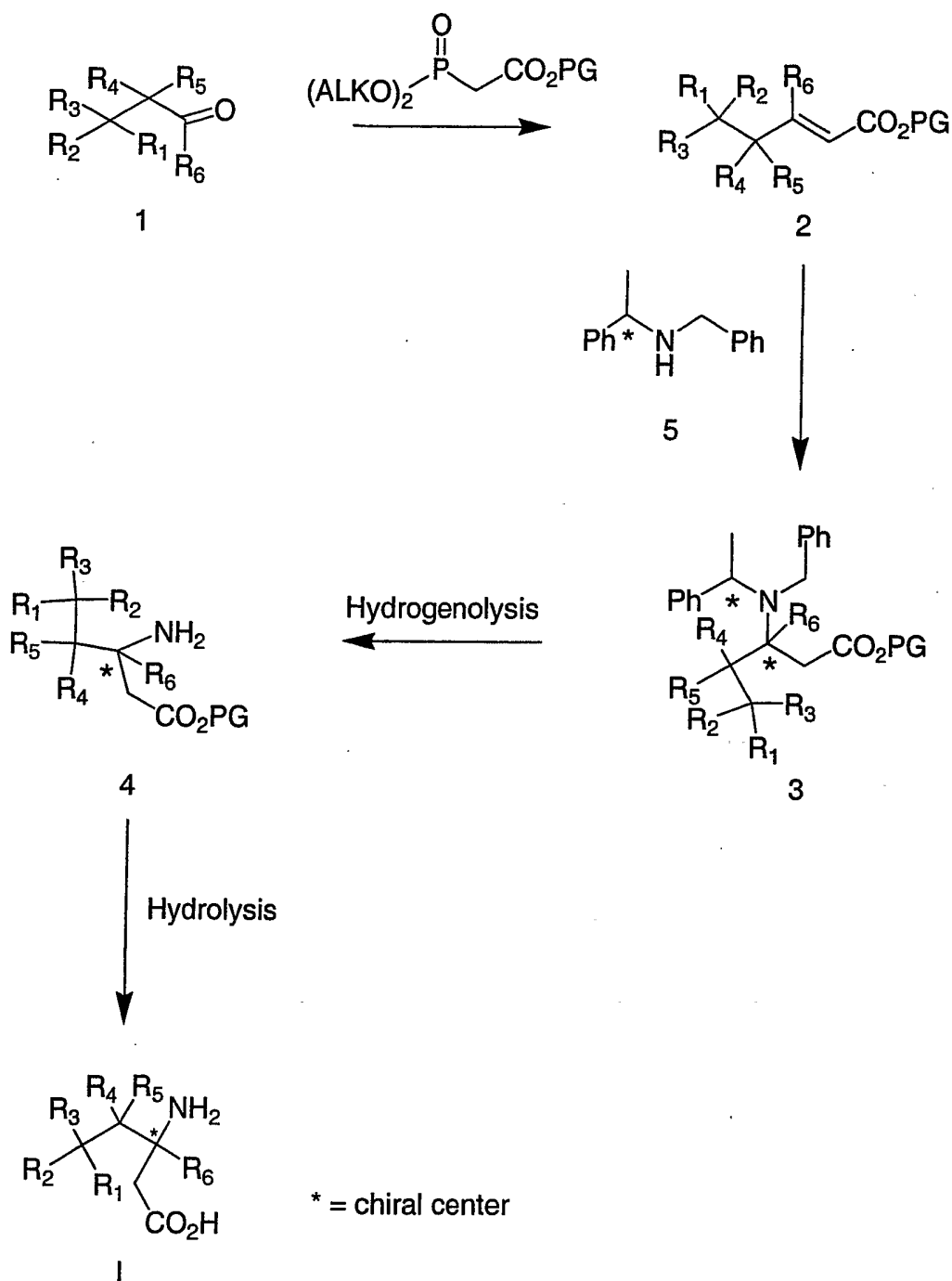
15 In some of the reaction schemes and examples below, certain compounds can be prepared using protecting groups, which prevent undesirable chemical reaction at otherwise reactive sites. Protecting groups may also be used to enhance solubility or otherwise modify physical properties of a compound. For a discussion of protecting group strategies, a description of materials and methods for installing and removing protecting
20 groups, and a compilation of useful protecting groups for common functional groups, including amines, carboxylic acids, alcohols, ketones, aldehydes, and the like, see T. W. Greene and P.G. Wuts, *Protecting Groups in Organic Chemistry* (1999) and P. Kocienski, *Protective Groups* (2000).

25 In addition, some of the schemes and examples below may omit details of common reactions, including oxidations, reductions, and so on, which are known to persons of ordinary skill in the art of organic chemistry. The details of such reactions can be found in a number of treatises, including Richard Larock, *Comprehensive Organic Transformations* (1999), and the multi-volume series edited by Michael B. Smith and others, *Compendium of Organic Synthetic Methods* (1974-2003). Generally, starting materials and
30 reagents may be obtained from commercial sources.

Generally, the chemical transformations described throughout the specification may be carried out using substantially stoichiometric amounts of reactants, though certain reactions may benefit from using an excess of one or more of the reactants. Additionally, many of the reactions disclosed
5 throughout the specification may be carried out at about RT, but particular reactions may require the use of higher or lower temperatures, depending on reaction kinetics, yields, and the like. Furthermore, many of the chemical transformations may employ one or more compatible solvents, which
10 depending on the nature of the reactants, may be polar protic solvents, polar aprotic solvents, non-polar solvents, or some combination. Although the choice of solvent or solvents may influence the reaction rate and yield, such solvents are generally considered to be inert (unreactive). Any references in the disclosure to a concentration range, a temperature range, a pH range, a catalyst loading range, and so on, whether expressly using the word "range"
15 or not, includes the indicated endpoints.

Diverse methods exist for the preparation of chiral and racemic β -amino acids. Such methods can be found in Eusebio Juaristi (editor), *Enantioselective Synthesis of β -Amino Acids* (1997).

The methods described below are illustrative of methods that can be
20 utilized for the preparation of such compounds but are not limiting in scope.

Method A

5 The use of chiral amine additions to α,β -unsaturated systems as a synthetic approach to β -amino acids, as illustrated in Method A above, has been described previously. See, e.g., S. G. Davies *et al*, *J. Chem. Soc. Chem. Commun.* 1153 (1993); S. G. Davies, *Synlett* 117 (1994); Ishikawa *et*

al, *Synlett* 1291 (1998); and Hawkins, *J. Org. Chem.* 51:2820 (1985).

Referring to Method A above, compounds of formula I can be prepared from the corresponding compounds of formula 4, wherein PG represents a suitable ester protecting group that can be removed by hydrolysis or hydrogenolysis, using conditions well known to those of skill in the art. See T. W. Greene and P. G. M. Wuts, *Protective groups in organic synthesis* (1991) for a detailed description for the formation and removal of suitable protecting groups). For example, this reaction can be conducted under hydrolytic conditions by treatment with an appropriate acid, such as hydrochloric acid or sulfuric acid, at a temperature from about room temperature to about the reflux temperature of the reaction mixture, preferably at the reflux temperature, or by treatment with an appropriate inorganic base, such as sodium hydroxide, potassium hydroxide, or lithium hydroxide, preferably sodium hydroxide, at a temperature from about room temperature to about the reflux temperature, preferably at about room temperature. This reaction is preferably carried out using hydrochloric acid at the reflux temperature. When PG is t-butyl, however, the reaction is preferably carried out in trifluoroacetic acid (TFA). When PG is a basic group, the hydrolysis can be carried out under basic conditions, using methods well known to those of skill in the art, for example, using sodium or potassium hydroxide.

Compounds of formula 4 can be prepared from the corresponding compounds of formula 3 using hydrogenolysis conditions that are well known to those of skill in the art. For example, this reaction can be carried out by treating the compounds of formula 3 with a palladium metal catalyst, such as, for example, palladium hydroxide on carbon, or palladium on carbon, or with Raney Nickel, in a solvent such as, for example, methanol, ethanol or tetrahydrofuran, under an atmosphere of hydrogen (between about 1 and 5 atmospheres of pressure) to give the desired compound of formula 4. Preferably, the reaction is carried out using palladium on carbon in ethanol under about 1 atmosphere of hydrogen.

Compounds of formula 3 can be prepared by treating the corresponding compounds of formula 2 with an appropriate amine such as

(R)-(+)-N-benzyl- α -methylbenzylamine, (S)-(-)-N-benzyl- α -methylbenzylamine after treatment with an appropriate base such as lithium diisopropylamide, n-butyl lithium, or lithium or potassium bis(trimethylsilyl)amide, in a solvent such as ethyl ether, or, preferably, tetrahydrofuran (THF), at a temperature from about -80°C to about 25°C , and then adding the appropriate compound of formula 2. The stereochemistry about the nitrogen of the amine will determine the stereochemistry about the nitrogen of the final product. Preferably, this reaction is carried out using either (R)-(+)-N-benzyl- α -methylbenzylamine, (S)-(-)-N-benzyl- α -methylbenzylamine, after deprotonation with n-butyl-lithium in tetrahydrofuran, at a temperature of about -78°C , according to method described by S. D. Bull et al., *J. Chem. Soc., Perkin Trans. 1* 22:2931-38 (2001). Preferably, this reaction is carried out using either (R)-(+)-N-benzyl- α -methylbenzylamine, or (S)-(-)-N-benzyl- α -methylbenzylamine, after deprotonation with n-butyl-lithium in tetrahydrofuran, at a temperature of about -78°C , according to method described by S. D. Bull et al., *J. Chem. Soc., Perkin Trans. 1* 22:2931-38 (2001).

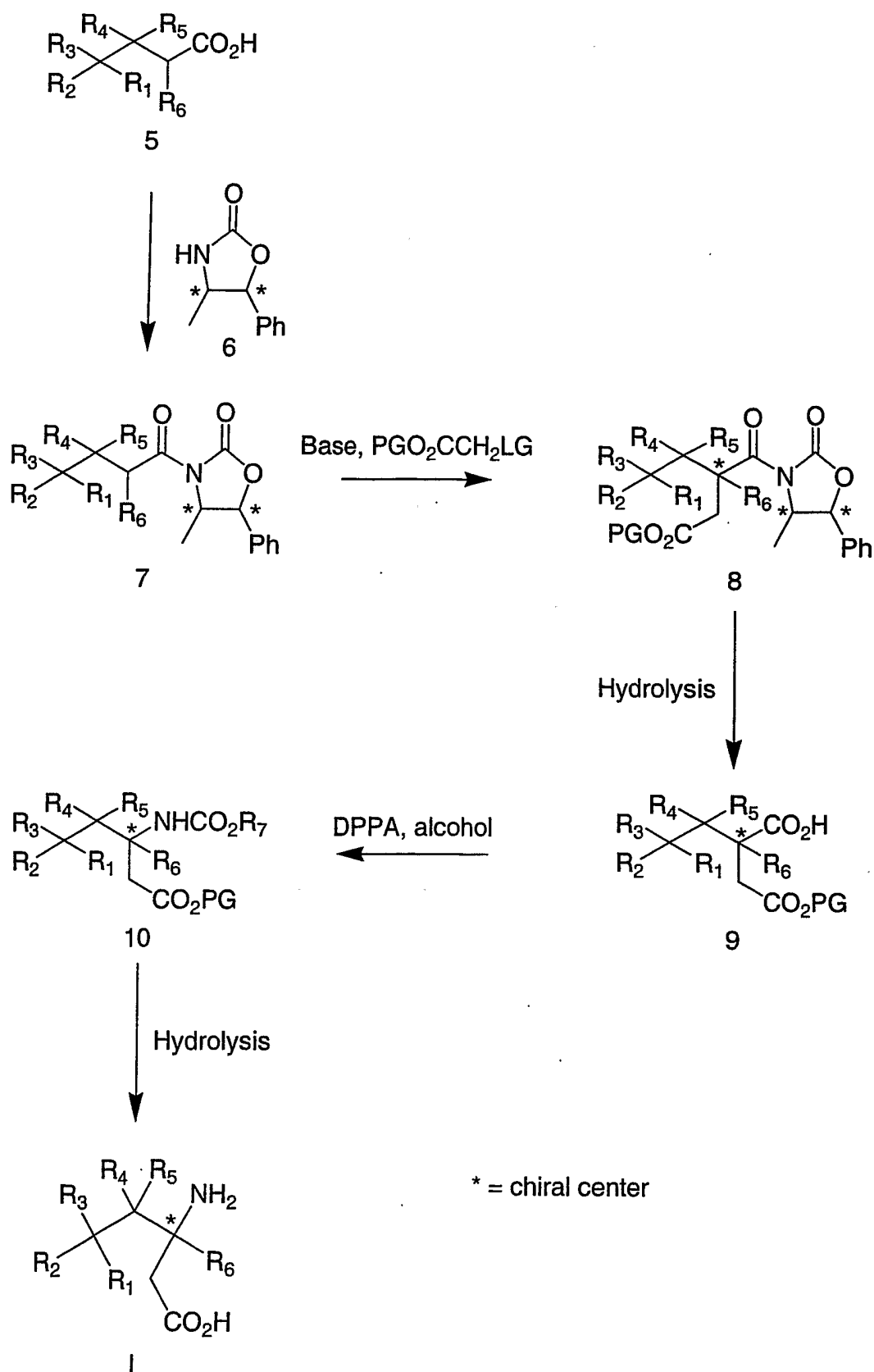
Compounds of formula 2 can be prepared from the corresponding compounds of formula 1 by treating them with an appropriate phosphonate ester in the presence of a suitable base such as sodium hydride, lithium diisopropylamide, or triethyl amine and either lithium chloride or lithium bromide, in a solvent such as ether or THF. Preferably, the compound of formula 1 is reacted with a phosphonate ester (ALK = methyl, ethyl, isopropyl, benzyl or the like) in the presence of lithium bromide and triethylamine in tetrahydrofuran at about room temperature. Compounds of formula 1 can be prepared from commercially available materials using methods well known to those of skill in the art. It will be appreciated that compounds of formula 1 may possess one or more stereogenic centers. Using the above-described method, compounds with specific stereochemical configurations can be prepared.

Compounds that can be made by this method include, but are not limited to the following:

- 3-Amino-4,5-dimethyl-hexanoic acid;
- 3-Amino-4,5-dimethyl-heptanoic acid;
- 5 3-Amino-4,5-dimethyl-octanoic acid;
- 3-Amino-4,5-dimethyl-nonanoic acid;
- 3-Amino-4-ethyl-5-methyl-heptanoic acid;
- 3-Amino-4-ethyl-5-methyl-octanoic acid;
- 3-Amino-4-ethyl-5-methyl-nonanoic acid;
- 10 3-Amino-4-ethyl-5,6-dimethyl-heptanoic acid;
- 3-Amino-4-ethyl-5,7-dimethyl-octanoic acid;
- 3-Amino-4-ethyl-5,8-dimethyl-nonanoic acid;
- (3R,4R)-3-Amino-4,5-dimethyl-hexanoic acid;
- (3R,4R,5R)-3-Amino-4,5-dimethyl-heptanoic acid;
- 15 (3R,4R,5R)-3-Amino-4,5-dimethyl-octanoic acid;
- (3R,4R,5R)-3-Amino-4,5-dimethyl-nonanoic acid;
- (3R,4R,5R)-3-Amino-4,5-dimethyl-decanoic acid;
- 3-Amino-4,6-dimethyl-heptanoic acid;
- 3-Amino-4,6-dimethyl-octanoic acid;
- 20 3-Amino-4,6-dimethyl-nonanoic acid;
- 3-Amino-4,6-dimethyl-decanoic acid;
- 3-Amino-4,6,7-trimethyl-octanoic acid;
- 3-Amino-4,6,8-trimethyl-nonanoic acid;
- 3-Amino-4,6,9-trimethyl-decanoic acid;
- 25 3-Amino-6-cyclopropyl-4-methyl-heptanoic acid;
- 3-Amino-6-cyclobutyl-4-methyl-heptanoic acid;
- 3-Amino-6-cyclopentyl-4-methyl-heptanoic acid;
- 3-Amino-6-cyclohexyl-4-methyl-heptanoic acid;
- 3-Amino-7-cyclopropyl-4,6-dimethyl-heptanoic acid;
- 30 3-Amino-7-cyclobutyl-4,6-dimethyl-heptanoic acid;
- 3-Amino-7-cyclopentyl-4,6-dimethyl-heptanoic acid;
- 3-Amino-7-cyclohexyl-4,6-dimethyl-heptanoic acid;

- 3-Amino-8-cyclopropyl-4,6-dimethyl-octanoic acid;
3-Amino-8-cyclobutyl-4,6-dimethyl-octanoic acid;
3-Amino-8-cyclopentyl-4,6-dimethyl-octanoic acid;
3-Amino-8-cyclohexyl-4,6-dimethyl-octanoic acid;
5 3-Amino-6-(3-chloro-phenyl)-4-methyl-heptanoic acid;
3-Amino-6-(3,4-dichloro-phenyl)-4-methyl-heptanoic acid;
3-Amino-4-methyl-6-(3-trifluoromethyl-phenyl)-heptanoic acid;
3-Amino-4-methyl-6-(4-trifluoromethyl-phenyl)-heptanoic acid;
3-Amino-7-(3-chloro-phenyl)-4,6-dimethyl-heptanoic acid;
10 3-Amino-7-(3,4-dichloro-phenyl)-4,6-dimethyl-heptanoic acid;
3-Amino-4,6-dimethyl-7-(3-trifluoromethyl-phenyl)-heptanoic acid;
3-Amino-4,6-dimethyl-7-(4-trifluoromethyl-phenyl)-heptanoic acid;
3-Amino-8-(3-chloro-phenyl)-4,6-dimethyl-octanoic acid;
3-Amino-8-(3,4-dichloro-phenyl)-4,6-dimethyl-octanoic acid;
15 3-Amino-4,6-dimethyl-8-(3-trifluoromethyl-phenyl)-octanoic acid;
3-Amino-4,6-dimethyl-8-(4-trifluoromethyl-phenyl)-octanoic acid;
3-Amino-4-ethyl-6-methyl-octanoic acid;
3-Amino-4-ethyl-6-methyl-nonanoic acid;
3-Amino-4-ethyl-6-methyl-decanoic acid;
20 3-Amino-4-ethyl-6,7-dimethyl-octanoic acid;
3-Amino-4-ethyl-6,8-dimethyl-nonanoic acid;
3-Amino-4-ethyl-6,9-dimethyl-decanoic acid;
3-Amino-6-cyclopropyl-4-ethyl-heptanoic acid;
3-Amino-6-cyclobutyl-4-ethyl-heptanoic acid;
25 3-Amino-6-cyclopentyl-4-ethyl-heptanoic acid;
3-Amino-6-cyclohexyl-4-ethyl-heptanoic acid;
3-Amino-7-cyclopropyl-4-ethyl-6-methyl-heptanoic acid;
3-Amino-7-cyclobutyl-4-ethyl-6-methyl-heptanoic acid;
3-Amino-7-cyclopentyl-4-ethyl-6-methyl-heptanoic acid;
30 3-Amino-7-cyclohexyl-4-ethyl-6-methyl-heptanoic acid;
3-Amino-8-cyclopropyl-4-ethyl-6-methyl-octanoic acid;
3-Amino-8-cyclobutyl-4-ethyl-6-methyl-octanoic acid;

- 3-Amino-8-cyclopentyl-4-ethyl-6-methyl-octanoic acid;
3-Amino-8-cyclohexyl-4-ethyl-6-methyl-octanoic acid;
3-Amino-6-(3-chloro-phenyl)-4-ethyl-heptanoic acid;
3-Amino-6-(3,4-dichloro-phenyl)-4-ethyl-heptanoic acid;
5 3-Amino-4-ethyl-6-(3-trifluoromethyl-phenyl)-heptanoic acid;
3-Amino-4-ethyl-6-(4-trifluoromethyl-phenyl)-heptanoic acid;
3-Amino-7-(3-chloro-phenyl)-4-ethyl-6-methyl-heptanoic acid;
3-Amino-7-(3,4-dichloro-phenyl)-4-ethyl-6-methyl-heptanoic acid;
3-Amino-4-ethyl-6-methyl-7-(3-trifluoromethyl-phenyl)-heptanoic acid;
10 3-Amino-4-ethyl-6-methyl-7-(4-trifluoromethyl-phenyl)-heptanoic acid;
3-Amino-8-(3-chloro-phenyl)-4-ethyl-6-methyl-octanoic acid;
3-Amino-8-(3,4-dichloro-phenyl)-4-ethyl-6-methyl-octanoic acid;
3-Amino-4-ethyl-6-methyl-8-(3-trifluoromethyl-phenyl)-octanoic acid;
and
15 3-Amino-4-ethyl-6-methyl-8-(4-trifluoromethyl-phenyl)-octanoic acid.

Method B

The diastereoselective alkylation of imides such as those of formula 7 to afford chiral succinate analogs such as those of formula 8 has been previously described as an approach to preparing β -amino acids. See, e.g., Evans *et al*, *J. Org. Chem.* 64:6411 (1999); Sibi and Deshpande, *J. Chem. Soc. Perkin Trans 1* 1461 (2000); and Arvanitis *et al*, *J. Chem. Soc. Perkin Trans 1* 521 (1998).

Compounds of formula 8 can be prepared from compounds of formula 7 in the presence of a suitably derived ester (PG as defined above, LG = Br or I or Cl) such as, for example, t-butyl bromoacetate, benzyl bromoacetate with an organometallic base such as, for example, lithium diisopropylamide or lithium bis(trimethylsilyl)amide or sodium bis(trimethylsilyl)amide and the like in a solvent such as, for example, tetrahydrofuran, ether, and the like. The reaction can be carried out using sodium bis(trimethylsilyl)amide in tetrahydrofuran at -78°C and treatment of the resultant anion intermediate with t-butyl bromoacetate at -78°C to -30°C.

Compounds of formula 9 can be prepared by hydrolyzing the corresponding compounds of formula 8 in the presence of lithium hydroxide and hydrogen peroxide in a solvent such as water or THF, at a temperature from about 0°C to about room temperature. Preferably, this reaction is carried out using hydrogen peroxide and lithium hydroxide in aqueous tetrahydrofuran at about 0°C according to the method described in the literature. See P.-W. Yuen *et al.*, *Bioorganic and Medicinal Chem. Lett.* 4(6):823-26 (1994).

Treatment of the compound of formula 9 with diphenylphosphorylazide (DPPA) followed by treatment with a suitable alcohol such as t-butanol, benzyl alcohol or p-methoxybenzyl alcohol, in a suitable solvent such as toluene, benzene, MTBE, or THF, at a temperature from about 50°C to about the reflux temperature of the reaction mixture yields the corresponding compound of formula 10, wherein R₇ is methyl, ethyl, t-butyl, benzyl, or p-methoxybenzyl. R₇ is dependent on the choice of the alcohol used. Preferably, this reaction is carried out using a toluene solvent in the presence of p-methoxybenzyl alcohol under refluxing conditions.

Compounds of formula 10 can be converted into the desired compounds of formula I by hydrolysis or hydrogenolysis, using conditions well known to those of skill in the art. See T. W. Greene and P. G. M. Wuts, *Protective groups in organic synthesis* (1991) for a detailed description for the formation and removal of suitable protecting groups. For example, this reaction can be conducted under hydrolytic conditions by treatment with an appropriate acid, such as hydrochloric acid or sulfuric acid, at a temperature from about room temperature to about the reflux temperature of the reaction mixture, preferably at the reflux temperature, or by treatment with an appropriate inorganic base, such as sodium hydroxide, potassium hydroxide, or lithium hydroxide, preferably sodium hydroxide, at a temperature from about room temperature to about the reflux temperature, preferably at about room temperature. This reaction is preferably carried out using hydrochloric acid at the reflux temperature. When PG is t-butyl, however, the reaction is preferably carried out in trifluoroacetic acid (TFA). When PG is a basic group, the hydrolysis can be carried out under basic conditions, using methods well known to those of skill in the art, for example, using sodium or potassium hydroxide.

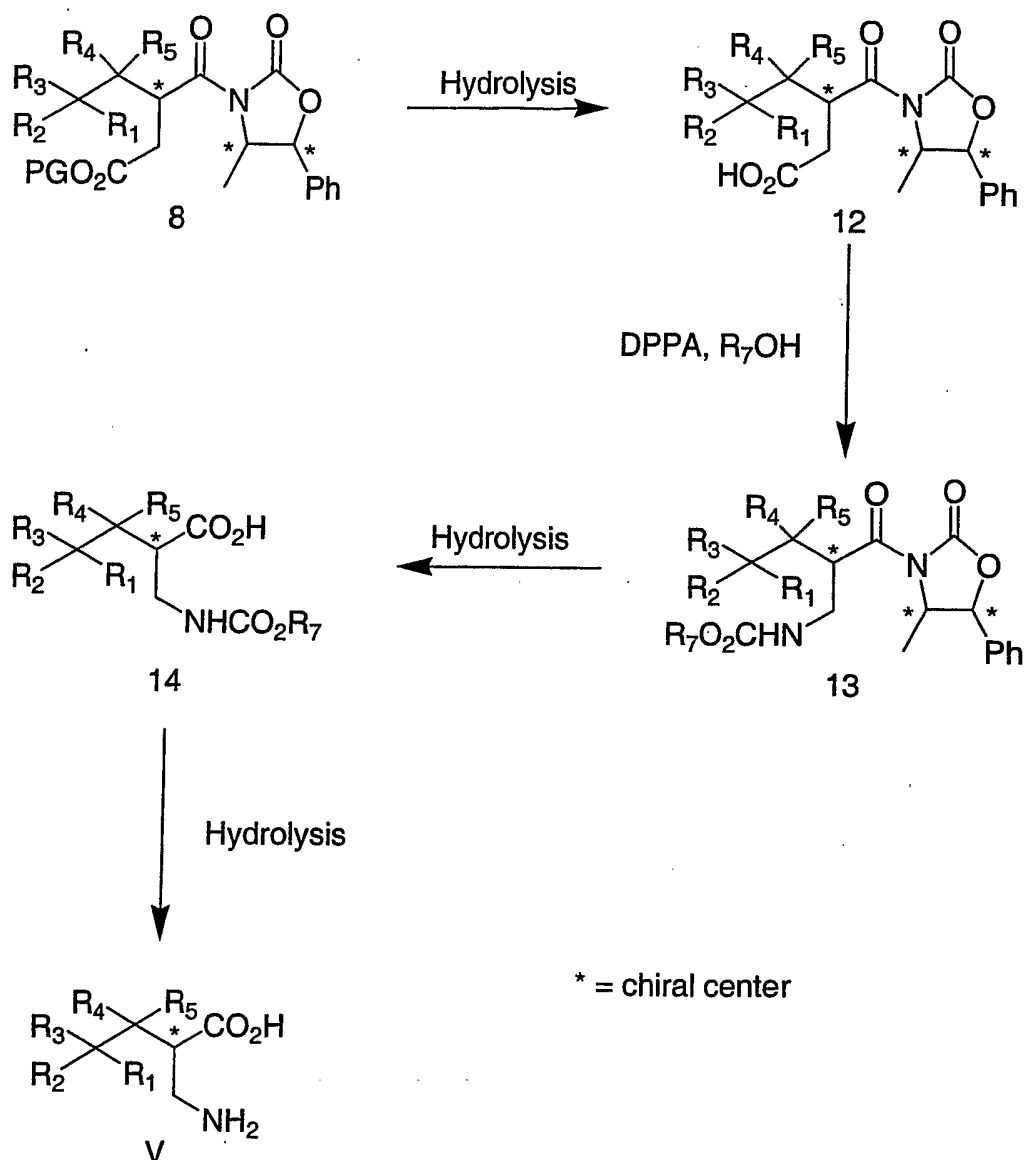
Compounds of formula 7 can be prepared by treating the corresponding compounds of formula 5 with an amine base such as triethylamine, in the presence of trimethylacetylchloride, in an ethereal solvent such as THF, and then treating the intermediates formed by this reaction (in situ) with a chiral oxazolidinone of formula 6. Examples of other oxazolidinones that can be used in this method are: (4S)-(-)-4-isopropyl-2-oxazolidinone; (S)-(-)-4-benzyl-2-oxazolidinone; (4S,5R)-(-)-4-methyl-5-phenyl-2-oxazolidinone; (R)-(+)-4-benzyl-2-oxazolidinone, (S)-(+)-4-phenyl-2-oxazolidinone; (R)-(-)-4-phenyl-2-oxazolidinone; (R)-4-isopropyl-2-oxazolidinone; and (4R,5S)-(+)-4-methyl-5-phenyl-2-oxazolidinone)) and lithium chloride. Preferably, this reaction is carried out by treating an acid of formula 5 with trimethylacetylchloride and triethylamine in tetrahydrofuran at about -20°C, followed by treatment of the intermediate formed in such reaction with an oxazolidinone of formula 6 and lithium chloride at about room

temperature according to literature procedures. See G.-J. Ho and D. J. Mathre, *J. Org. Chem.* 60:2271-73 (1995).

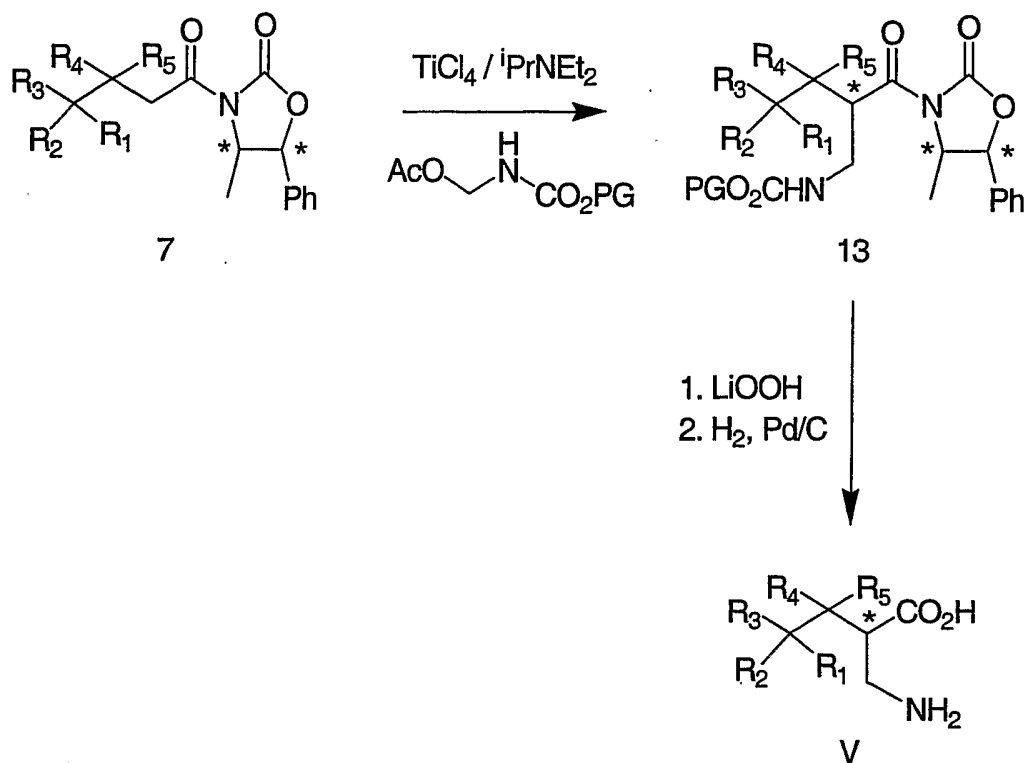
Alternatively, compounds of formula 7 can be prepared by treating the corresponding compounds of formula 6 with an acid chloride derived from treatment of the corresponding compound of formula 5 with oxalyl chloride, in a solvent such as dichloromethane, in the presence of dimethylformamide (DMF). Acids of formula 5 can be prepared from commercially available materials using methods well known to those of skill in the art. These acids may possess one or more stereogenic centers.

Alternatively, referring to Method C below, compounds of formula 8 can be treated with an appropriate acid (for example, trifluoroacetic acid (TFA) when the t-butyl ester is used) to yield the corresponding compounds of formula 12, which can then be subjected to a Curtius rearrangement (where R_7 is defined as above) to yield the corresponding compounds of formula 13. See Arvanitis *et al*, *J. Chem. Soc. Perkin Trans 1* 521 (1998) for a description of this approach. Further hydrolysis of the imide group yields the corresponding compound of formula 14; hydrolysis of the resulting carbamate group in formula 14 gives the desired β -amino acids of formula V.

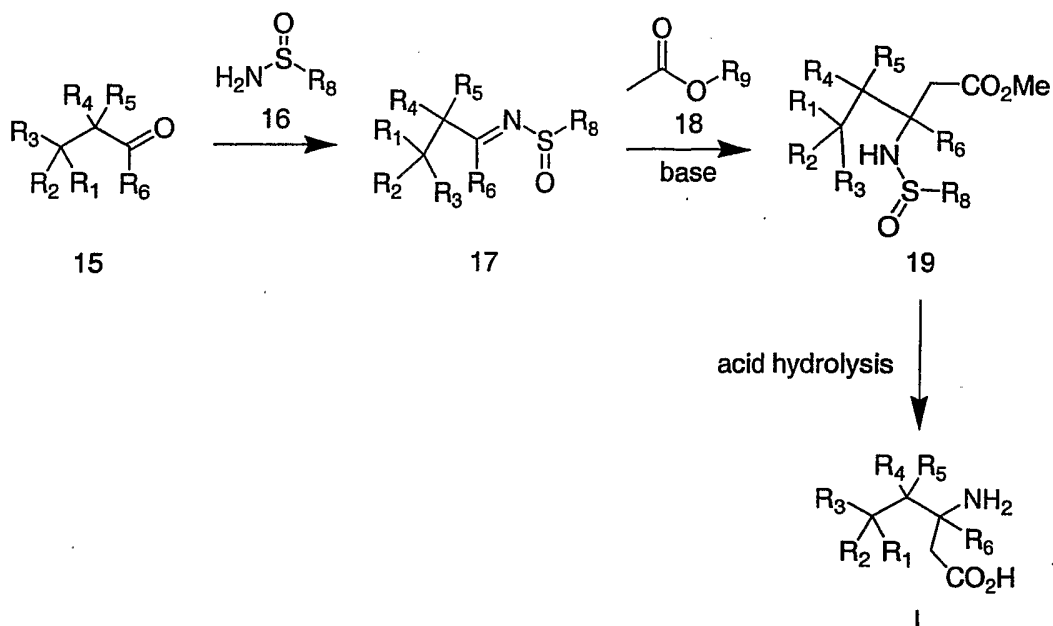
Compounds of formula 13 may be converted to compounds of formula 14 in a manner similar to the method for converting compounds of formula 8 into compounds of formula 9 (Method B). Furthermore, compounds of formula 14 may be converted to compounds of formula II through treatment with a strong acid, such as hydrochloric acid or the like, or a strong base, such as sodium or potassium hydroxide or, if R_7 is benzyl or p-methoxybenzyl, through hydrogenolytic conditions, using palladium on carbon in ethanol or THF under a hydrogen atmosphere. This approach, which preserves the stereochemistry about the stereogenic center in the compounds of formula 8 and formula II, is utilized in Example 4 below.

Method C

Other alternative approaches to synthesizing α -substituted β -amino acids that can be utilized for preparing the compounds of this invention. See, e.g., Juaristi et al., *Tetrahedron Asymm.* 7(8):2233 (1996); Seebach et al., *Eur. J. Org. Chem.* 335 (1999); Nagula et al., *Org. Lett.* 2:3527 (2000); Arvanitis et al., *J. Chem. Soc. Perkin Trans 1* 521 (1998); and Hintermann et al., *Helv. Chim. Acta* 81:2093 (1998), as shown in Method D below.

Method D

- 5 The use of chiral sulfinimines to afford β-amino acids, as illustrated in Method E below, has been described previously. See, e.g., T. P. Tang and J. A. Ellman, *J. Org. Chem.* 64:12-13 (1999); Davis and McCoull, *J. Org. Chem.* 64:3396-97 (1999), and Davis et al., *J. Org. Chem.* 64:1403-06 (1999).

Method E

The final step in the above scheme ($R_8 = t$ -butyl or p -tolyl, $R_9 =$ a suitably derived ester such as methyl, ethyl or t -butyl) is a hydrolysis of both the sulfonamide and ester groups of a compound of formula 19 to give a compound of formula I. This reaction is generally carried out using a strong acid such as trifluoroacetic acid, hydrochloric acid, hydrobromic acid or sulfuric acid, in a solvent such as water or dioxane or a mixture of water and dioxane, at a temperature from about 20°C to about 100°C, preferably at about room temperature. The reaction may be carried out by treating compounds of formula 19 with an acid such as TFA in a solvent such as methanol then treating the product with TFA in a solvent such as dichloromethane to give a compound of formula I.

Compounds that can be made by this method include, but are not limited to the following:

- 3-Amino-4,5-dimethyl-hexanoic acid;
- 3-Amino-4,5-dimethyl-heptanoic acid;
- 3-Amino-4,5-dimethyl-octanoic acid;
- 3-Amino-4,5-dimethyl-nonanoic acid;
- 3-Amino-4-ethyl-5-methyl-heptanoic acid;
- 3-Amino-4-ethyl-5-methyl-octanoic acid;

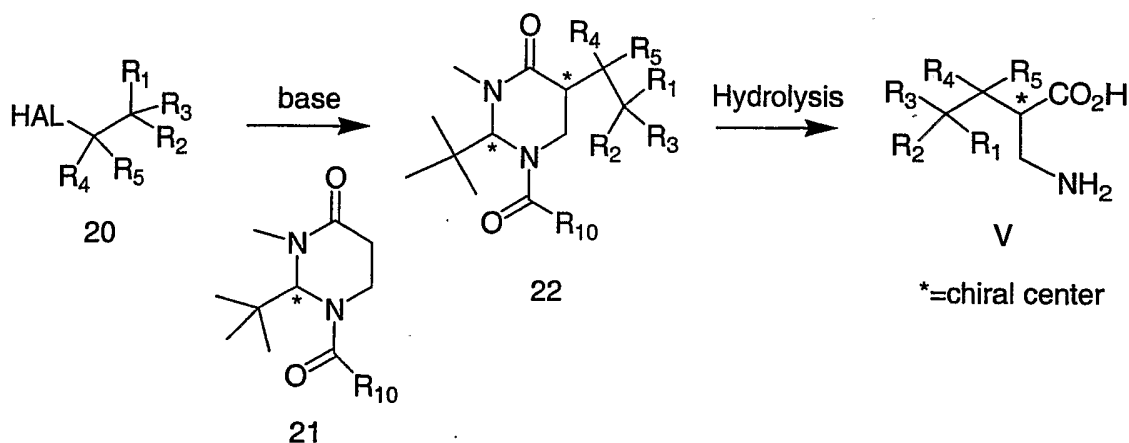
- 3-Amino-4-ethyl-5-methyl-nonanoic acid;
3-Amino-4-ethyl-5-methyl- decanoic acid;
3-Amino-4-ethyl-5,6-dimethyl-heptanoic acid;
3-Amino-4-ethyl-5,7-dimethyl-octanoic acid;
5 3-Amino-4-ethyl-5,8-dimethyl-nonanoic acid;
3-Amino-5-ethyl-4-methyl-octanoic acid;
3-Amino-5-ethyl-4-methyl-nonanoic acid;
3-Amino-4,5-diethyl-heptanoic acid;
3-Amino-4,5-diethyl-octanoic acid;
10 3-Amino-4,5-diethyl-nonanoic acid;
3-Amino-5-ethyl-4,7-dimethyl-octanoic acid;
3-Amino-5-ethyl-4,8-dimethyl-nonanoic acid;
3-Amino-4,5-diethyl-6-methyl-heptanoic acid;
3-Amino-4,5-diethyl-7-methyl-octanoic acid;
15 3-Amino-4,5-diethyl-8-methyl-nonanoic acid;
3-Amino-4,5,6-trimethyl-heptanoic acid;
3-Amino-4,5,7-trimethyl-octanoic acid;
3-Amino-4,5,8-trimethyl-nonanoic acid;
3-Amino-4-ethyl-5-methyl-hexanoic acid;
20 3-Amino-5-ethyl-4-methyl-octanoic acid;
3-Amino-5-ethyl-4-methyl-heptanoic acid;
3-Amino-4-methyl-5-propyl-octanoic acid;
3-Amino-6-cyclopentyl-4,5-dimethyl-hexanoic acid;
3-Amino-7-cyclopentyl-4,5-dimethyl-heptanoic acid;
25 3-Amino-5-ethyl-4,6-dimethyl-heptanoic acid;
3-Amino-5-ethyl-4,7-dimethyl-octanoic acid;
3-Amino-5-ethyl-4,8-dimethyl-nonanoic acid;
(3R,4R)-3-Amino-4,5-dimethyl-hexanoic acid;
(3R,4R,5R)-3-Amino-4,5-dimethyl-heptanoic acid;
30 (3R,4R,5R)-3-Amino-4,5-dimethyl-octanoic acid;
(3R,4R,5R)-3-Amino-4,5-dimethyl-nonanoic acid;
(3R,4R,5R)-3-Amino-4,5-dimethyl- decanoic acid;

- 3-Amino-5-cyclopropyl-4-ethyl-hexanoic acid;
3-Amino-6-cyclopropyl-4-ethyl-5-methyl-hexanoic acid;
3-Amino-5-cyclobutyl-4-ethyl-hexanoic acid;
3-Amino-6-cyclobutyl-4-ethyl-5-methyl-hexanoic acid;
5 3-Amino-5-cyclopentyl-4-methyl-hexanoic acid;
3-Amino-6-cyclopentyl-4-ethyl-5-methyl-hexanoic acid;
3-Amino-5-cyclohexyl-4-ethyl-hexanoic acid;
3-Amino-6-cyclohexyl-4-ethyl-5-methyl-hexanoic acid;
3-Amino-5-cyclopropyl-4-methyl-hexanoic acid;
10 3-Amino-6-cyclopropyl-4,5-dimethyl-hexanoic acid;
3-Amino-5-cyclobutyl-4-methyl-hexanoic acid;
3-Amino-6-cyclobutyl-4,5-dimethyl-hexanoic acid;
3-Amino-5-cyclopentyl-4-methyl-hexanoic acid;
3-Amino-6-cyclopentyl-4,5-dimethyl-hexanoic acid;
15 3-Amino-5-cyclohexyl-4-methyl-hexanoic acid;
3-Amino-6-cyclohexyl-4,5-dimethyl-hexanoic acid;
3-Amino-8-cyclohexyl-4,5-dimethyl-octanoic acid;
3-Amino-8-cyclohexyl-4,5-dimethyl-octanoic acid;
3-Amino-4,6-dimethyl-heptanoic acid;
20 3-Amino-4,6-dimethyl-octanoic acid;
3-Amino-4,6-dimethyl-nonanoic acid;
3-Amino-4,6-dimethyl-decanoic acid;
3-Amino-4,6,7-trimethyl-octanoic acid;
3-Amino-4,6,8-trimethyl-nonanoic acid;
25 3-Amino-4,6,9-trimethyl-decanoic acid;
3-Amino-6-cyclopropyl-4-methyl-heptanoic acid;
3-Amino-6-cyclobutyl-4-methyl-heptanoic acid;
3-Amino-6-cyclopentyl-4-methyl-heptanoic acid;
3-Amino-6-cyclohexyl-4-methyl-heptanoic acid;
30 3-Amino-7-cyclopropyl-4,6-dimethyl-heptanoic acid;
3-Amino-7-cyclobutyl-4,6-dimethyl-heptanoic acid;
3-Amino-7-cyclopentyl-4,6-dimethyl-heptanoic acid;

- 3-Amino-7-cyclohexyl-4,6-dimethyl-heptanoic acid;
3-Amino-8-cyclopropyl-4,6-dimethyl-octanoic acid;
3-Amino-8-cyclobutyl-4,6-dimethyl-octanoic acid;
3-Amino-8-cyclopentyl-4,6-dimethyl-octanoic acid;
5 3-Amino-8-cyclohexyl-4,6-dimethyl-octanoic acid;
3-Amino-6-(3-chloro-phenyl)-4-methyl-heptanoic acid;
3-Amino-6-(3,4-dichloro-phenyl)-4-methyl-heptanoic acid;
3-Amino-4-methyl-6-(3-trifluoromethyl-phenyl)-heptanoic acid;
3-Amino-4-methyl-6-(4-trifluoromethyl-phenyl)-heptanoic acid;
10 3-Amino-7-(3-chloro-phenyl)-4,6-dimethyl-heptanoic acid;
3-Amino-7-(3,4-dichloro-phenyl)-4,6-dimethyl-heptanoic acid;
3-Amino-4,6-dimethyl-7-(3-trifluoromethyl-phenyl)-heptanoic acid;
3-Amino-4,6-dimethyl-7-(4-trifluoromethyl-phenyl)-heptanoic acid;
3-Amino-8-(3-chloro-phenyl)-4,6-dimethyl-octanoic acid;
15 3-Amino-8-(3,4-dichloro-phenyl)-4,6-dimethyl-octanoic acid;
3-Amino-4,6-dimethyl-8-(3-trifluoromethyl-phenyl)-octanoic acid;
3-Amino-4,6-dimethyl-8-(4-trifluoromethyl-phenyl)-octanoic acid;
3-Amino-4-ethyl-6-methyl-octanoic acid;
3-Amino-4-ethyl-6-methyl-nonanoic acid;
20 3-Amino-4-ethyl-6-methyl-decanoic acid;
3-Amino-4-ethyl-6,7-dimethyl-octanoic acid;
3-Amino-4-ethyl-6,8-dimethyl-nonanoic acid;
3-Amino-4-ethyl-6,9-dimethyl-decanoic acid;
3-Amino-6-cyclopropyl-4-ethyl-heptanoic acid;
25 3-Amino-6-cyclobutyl-4-ethyl-heptanoic acid;
3-Amino-6-cyclopentyl-4-ethyl-heptanoic acid;
3-Amino-6-cyclohexyl-4-ethyl-heptanoic acid;
3-Amino-7-cyclopropyl-4-ethyl-6-methyl-heptanoic acid;
3-Amino-7-cyclobutyl-4-ethyl-6-methyl-heptanoic acid;
30 3-Amino-7-cyclopentyl-4-ethyl-6-methyl-heptanoic acid;
3-Amino-7-cyclohexyl-4-ethyl-6-methyl-heptanoic acid;
3-Amino-8-cyclopropyl-4-ethyl-6-methyl-octanoic acid;

3-Amino-8-cyclobutyl-4-ethyl-6-methyl-octanoic acid;
3-Amino-8-cyclopentyl-4-ethyl-6-methyl-octanoic acid;
3-Amino-8-cyclohexyl-4-ethyl-6-methyl-octanoic acid;
3-Amino-6-(3-chloro-phenyl)-4-ethyl-heptanoic acid;
5 3-Amino-6-(3,4-dichloro-phenyl)-4-ethyl-heptanoic acid;
3-Amino-4-ethyl-6-(3-trifluoromethyl-phenyl)-heptanoic acid;
3-Amino-4-ethyl-6-(4-trifluoromethyl-phenyl)-heptanoic acid;
3-Amino-7-(3-chloro-phenyl)-4-ethyl-6-methyl-heptanoic acid;
3-Amino-7-(3,4-dichloro-phenyl)-4-ethyl-6-methyl-heptanoic acid;
10 3-Amino-4-ethyl-6-methyl-7-(3-trifluoromethyl-phenyl)-heptanoic acid;
3-Amino-4-ethyl-6-methyl-7-(4-trifluoromethyl-phenyl)-heptanoic acid;
3-Amino-8-(3-chloro-phenyl)-4-ethyl-6-methyl-octanoic acid;
3-Amino-8-(3,4-dichloro-phenyl)-4-ethyl-6-methyl-octanoic acid;
3-Amino-4-ethyl-6-methyl-8-(3-trifluoromethyl-phenyl)-octanoic acid;
15 and
3-Amino-4-ethyl-6-methyl-8-(4-trifluoromethyl-phenyl)-octanoic acid.

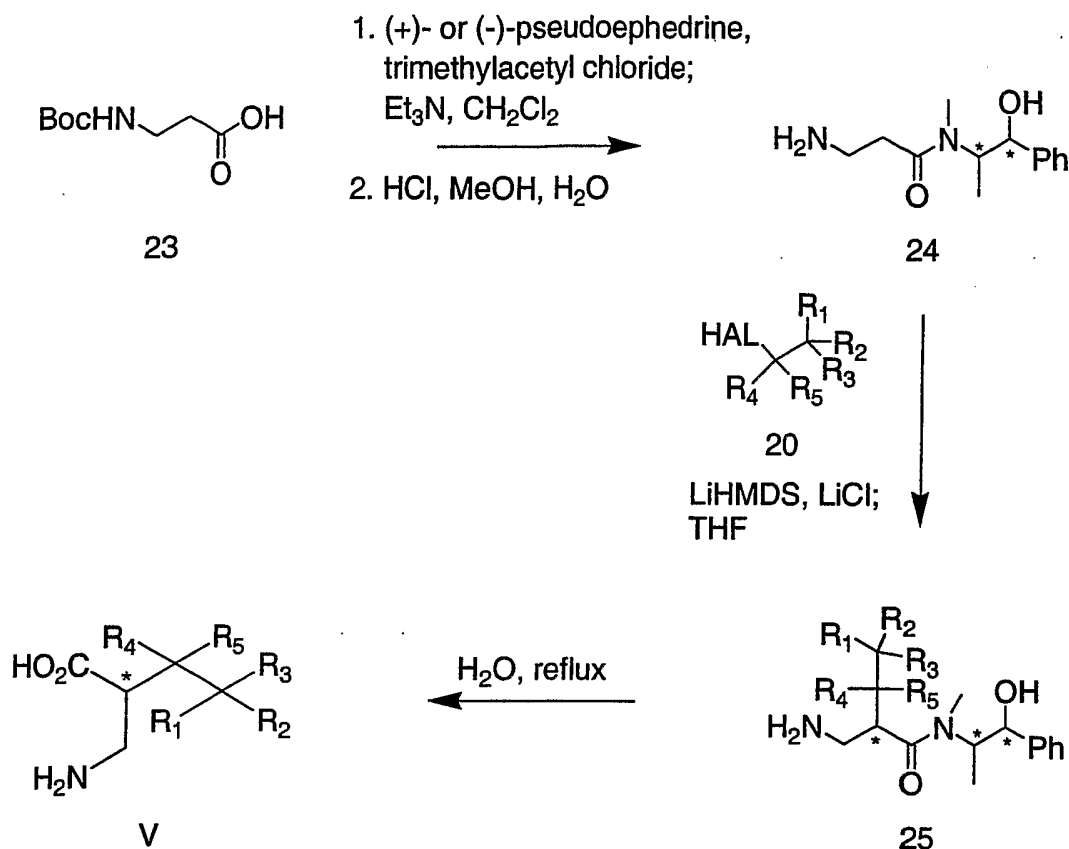
Method F



20 The synthesis of β -amino acids of formula V via the enantioselective alkylation of enantiopure 1-substituted-2-*tert*-butyl-3-methylperhydropyrimidine-4-one 21, as illustrated by Method F above, has been described previously. See, e.g., E. Juaristi, et al., *Tetrahedron: Asymmetry* 7:2233 (1996) and references cited therein. Referring to

Method F above, compounds of formula 22 can be prepared from corresponding compounds of formula 20 (HAL = Br, I, Cl or another suitable leaving group), wherein R₁₀ represents a phenyl or methoxy group, preferably a methoxy group. The hydrolysis can be conducted under acidic conditions in a sealed tube, at reflux, or in a microwave. For instance, the method utilizing 6N HCl in a sealed tube heated at 90-100°C for 8 hr is described by E. Juaristi et al., *Tetrahedron: Asymmetry* 7:2233 (1996). Other preferred methods include heating a solution of compound 22 in a 1:1 mixture of dioxane:6N HCl in a microwave for 1-3 hrs or at reflux for several days to give a compound of formula V.

Compounds of formula 22 can be prepared from the corresponding compounds of formula 20 by treating them with an appropriate perhydropyrimidine-4-one of formula 21 after deprotonation with an appropriate base such as lithium diisopropylamide or lithium or sodium bis(trimethylsilyl)amide, in a solvent such as ethyl ether, or, preferably, tetrahydrofuran (THF), at a temperature from about -80°C to about 0°C, and then adding the appropriate compound of formula 20. The stereochemistry of the C5 center arises from approach of the electrophile from the opposite face of the enolate from the sterically congested axial disposition of the *tert*-butyl group at C2. Preferably, the compound 22 is prepared by the reaction of electrophiles 20 with compounds of formula 21, which have been deprotonated at -78°C with sodium bis(trimethylsilyl)amide in THF, at -78°C to -10°C. The synthesis of enantiopure compound 21 (R₁₀ = Ph) from L-asparagine is described by E. Juaristi et al., *Tetrahedron: Asymmetry* 7:2233 (1996).

Method G

* = chiral center

In a like manner, Method G shows the synthesis of α -substituted, β -amino acids of formula V via the enantioselective alkylation of enantiopure 3-amino-N-(2-hydroxy-1-methyl-2-phenyl-ethyl)-N-methyl-propionamide (formula 24). See, G. Nagula et al., *Organic Letters* 2:3527-29 (2000). The method includes alkylation of compound 24 using an appropriate alkylating agent 20, where HAL in formula 20 is Br, I, Cl or another suitable leaving group. The enolate alkylation is carried out in a polar aprotic solvent (THF) with excess LiCl at a temperature of about -5°C to about 0°C using a hindered base (e.g., lithium hexamethyldisilazide, lithium diisopropylamide, etc.) that is sufficiently strong to deprotonate the α -carbon of formula 24. Hydrolysis of the resulting alkylated amide 25 gives the desired β -amino acid of formula V.

The compound of formula 24 is prepared through N-acylation of a chiral auxiliary, (+)- or (-)-pseudoephedrine, using a mixed anhydride. The

mixed anhydride is obtained by reacting an N-terminal protected, 3-amino-propionic acid (e.g., 3-tert-butoxycarbonylamino-propionic acid 23) with trimethylacetyl chloride in the presence of triethylamine in methylene chloride. Following the coupling reaction, the protecting group is removed via known methods (e.g., treatment of the resulting Boc-protected amide with HCl and MeOH) to give the compound of formula 24. See A. Myers et al., *J. Am. Chem. Soc.* 119:656-73 (1997).

Compounds of formula 20 shown in Method F and Method G can be prepared from commercially available materials using methods well known to those of skill in the art. It will be appreciated that compounds of formula 20 may possess one or more stereogenic centers. Using the above-described method, compounds with specific stereochemical configurations can be prepared.

The preparation of compounds of this invention that are not specifically described in the foregoing experimental section can be accomplished using combinations of the reactions described above that will be apparent to those skilled in the art.

In each of the reactions discussed or illustrated above, pressure is not critical unless otherwise indicated. Pressures from about 0.5 atmospheres to about 5 atmospheres are generally acceptable, and ambient pressure, i.e., about 1 atmosphere, is preferred as a matter of convenience.

The compounds of formula I, II, III, IV, V, and VI, and the intermediates shown in the above reaction schemes can be isolated and purified by conventional procedures, such as recrystallization or chromatographic separation.

The ability of compounds of the present invention to bind to the $\alpha 2\delta$ -subunit of a calcium channel can be determined using the following binding assay.

The radioligand binding assay using [^3H]-gabapentin and the $\alpha 2\delta$ -subunit derived from porcine brain tissue was used. See Nicolas S. Gee et al., "The novel anticonvulsant drug, gabapentin (Neurontin), binds to the $\alpha 2\delta$

subunit of a calcium channel," J. Biol. Chem. 271(10):5768-76 (1996).

Compounds of the invention bind with nanomolar to micromolar affinity for the $\alpha 2\delta$ protein. For example, 2-aminomethyl-5-ethyl-nonanoic acid binds with 75 nM affinity to the $\alpha 2\delta$ protein; (S)-3-amino-5-ethyl-3-methyl-heptanoic acid
5 binds with 149 nM affinity to the $\alpha 2\delta$ protein; and (3S,5R)-3-amino-3,5-dimethyl-heptanoic acid binds with 236 nM affinity to the $\alpha 2\delta$ protein.

The in vivo activity of compounds of this invention can be determined in animal models. For animal models related to hyperalgesia, see, e.g., K. Sluka et al., "Unilateral intramuscular injections of acidic saline produce a bilateral,
10 long-lasting hyperalgesia," *Muscle Nerve* 24:37-46 (2001); W. Dixon, "Efficient analysis of experimental observations," *Ann. Rev. Pharmacol. Toxicol.* 20:441-62 (1980); L. O. Randall and J. J. Selitto, "A method for measurement of analgesic activity on inflamed tissue," *Arch. Int. Pharmacodyn* 4:409-19 (1957); K. Hargreaves et al., "A new and sensitive method for measuring
15 thermal nociception in cutaneous hyperalgesia," *Pain* 32:77-88 (1988). For animal models related to anxiety, see J. R. Vogel et al., "A simple and reliable conflict procedure for testing anti-anxiety agents," *Psychopharmacologia* 21:1-7 (1971).

The compounds of the present invention, and their pharmaceutically
20 acceptable salts, can be administered to mammals via either the oral, parenteral (such as subcutaneous, intravenous, intramuscular, intrasternal and infusion techniques), rectal, buccal or intranasal routes.

The novel compounds of the present invention may be administered alone or in combination with pharmaceutically acceptable carriers or diluents by
25 any of the routes previously indicated, and such administration may be carried out in single or multiple doses. More particularly, the novel therapeutic agents of this invention can be administered in a wide variety of different dosage forms; i.e., they may be combined with various pharmaceutically acceptable inert
carriers in the form of tablets, capsules, lozenges, troches, hard candies,
30 suppositories, jellies, gels, pastes, ointments, aqueous suspensions, injectable solutions, elixirs, syrups, and the like. Such carriers include solid diluents or

fillers, sterile aqueous media and various non-toxic organic solvents, etc.

Moreover, oral pharmaceutical compositions can be suitably sweetened and/or flavored. In general, the weight ratio of the novel compounds of this invention to the pharmaceutically acceptable carrier will be in the range from about 1:6 to about 2:1, and preferably from about 1:4 to about 1:1.

For oral administration, tablets containing various excipients such as microcrystalline cellulose, sodium citrate, calcium carbonate, dicalcium phosphate and glycine may be employed along with various disintegrants such as starch (and preferably corn, potato or tapioca starch), alginic acid and certain complex silicates, together with granulation binders like polyvinylpyrrolidone, sucrose, gelatin and acacia. Additionally, lubricating agents such as magnesium stearate, sodium lauryl sulfate and talc are often very useful for tableting purposes. Solid compositions of a similar type may also be employed as fillers in gelatin capsules; preferred materials in this connection also include lactose or milk sugar as well as high molecular weight polyethylene glycols. When aqueous suspensions and/or elixirs are desired for oral administration, the active ingredient may be combined with various sweetening or flavoring agents, coloring matter or dyes, and, if so desired, emulsifying and/or suspending agents as well, together with such diluents as water, ethanol, propylene glycol, glycerin and various like combinations thereof.

For parenteral administration, solutions of a compound of the present invention in either sesame or peanut oil or in aqueous propylene glycol may be employed. The aqueous solutions should be suitably buffered (preferably pH greater than 8) if necessary and the liquid diluent first rendered isotonic. These aqueous solutions are suitable for intravenous injection purposes. The oily solutions are suitable for intra-articular, intra-muscular and subcutaneous injection purposes. The preparation of all these solutions under sterile conditions is readily accomplished by standard pharmaceutical techniques well known to those skilled in the art.

For intranasal administration or administration by inhalation, the novel compounds of the invention are conveniently delivered in the form of a

solution or suspension from a pump spray container that is squeezed or pumped by the patient or as an aerosol spray presentation from a pressurized container or a nebulizer, with the use of a suitable propellant, *e.g.*, dichlorodifluoromethane, trichlorofluoromethane, dichlorotetrafluoroethane, carbon dioxide or other suitable gas. In the case of a pressurized aerosol, the dosage unit may be determined by providing a valve to deliver a metered amount. The pressurized container or nebulizer may contain a solution or suspension of the active compound. Capsules and cartridges (made, for example, from gelatin) for use in an inhaler or insufflator may be formulated containing a powder mix of a compound of the invention and a suitable powder base such as lactose or starch. Formulations of the active compounds of this invention for treatment of the conditions referred to above in the average adult human are preferably arranged so that each metered dose or "puff" of aerosol contains 20 μg to 1000 μg of active compound. The overall daily dose with an aerosol will be within the range 100 μg to 10 mg. Administration may be several times daily, for example 2, 3, 4 or 8 times, giving for example, 1, 2 or 3 doses each time.

The compounds of the present invention can be prepared and administered in a wide variety of oral and parenteral dosage forms. Thus, the compounds of the present invention can be administered by injection, that is, intravenously, intramuscularly, intracutaneously, subcutaneously, intraduodenally, or intraperitoneally. Also, the compounds of the present invention can be administered by inhalation, for example, intranasally. Additionally, the compounds of the present invention can be administered transdermally. It will be obvious to those skilled in the art that the following dosage forms may comprise as the active component, either a compound of formulas I to VI or a corresponding pharmaceutically acceptable salt of such compound.

For preparing pharmaceutical compositions from the compounds of the present invention, pharmaceutically acceptable carriers can be either solid or liquid. Solid form preparations include powders, tablets, pills, capsules, cachets, suppositories, and dispersible granules. A solid carrier can be one

or more substances that may also act as diluents, flavoring agents, binders, preservatives, tablet disintegrating agents, or an encapsulating material. In powders, the carrier is a finely divided solid, which is in a mixture with the finely divided active component. In tablets, the active component is mixed
5 with the carrier having the necessary binding properties in suitable proportions and compacted in the shape and size desired.

The powders and tablets preferably contain from five or ten to about seventy percent of the active compound. Suitable carriers are magnesium carbonate, magnesium stearate, talc, sugar, lactose, pectin, dextrin, starch,
10 gelatin, tragacanth, methylcellulose, sodium carboxymethylcellulose, a low melting wax, cocoa butter, and the like. The term "preparation" is intended to include the formulation of the active compound with encapsulating material as a carrier providing a capsule in which the active component with or without other carriers, is surrounded by a carrier, which is thus in association with it.
15 Similarly, cachets and lozenges are included. Tablets, powders, capsules, pills, cachets, and lozenges can be used as solid dosage forms suitable for oral administration.

For preparing suppositories, a low melting wax, such as a mixture of fatty acid glycerides or cocoa butter, is first melted and the active component
20 is dispersed homogeneously therein, as by stirring. The molten homogeneous mixture is then poured into convenient sized molds, allowed to cool, and thereby to solidify.

Liquid form preparations include solutions, suspensions, and emulsions, for example, water or water propylene glycol solutions. For
25 parenteral injection liquid preparations can be formulated in solution in aqueous polyethylene glycol solution. Aqueous solutions suitable for oral use can be prepared by dissolving the active component in water and adding suitable colorants, flavors, stabilizing and thickening agents as desired. Aqueous suspensions suitable for oral use can be made by dispersing the
30 finely divided active component in water with viscous material, such as natural or synthetic gums, resins, methylcellulose, sodium carboxymethylcellulose, and other well-known suspending agents.

Also included are solid form preparations that are intended to be converted, shortly before use, to liquid form preparations for oral administration. Such liquid forms include solutions, suspensions, and emulsions. These preparations may contain, in addition to the active component, colorants, flavors, stabilizers, buffers, artificial and natural
5 sweeteners, dispersants, thickeners, solubilizing agents, and the like.

The pharmaceutical preparation is preferably in unit dosage form. In such form the preparation is subdivided into unit doses containing appropriate quantities of the active component. The unit dosage form can be a packaged
10 preparation, the package containing discrete quantities of preparation, such as packeted tablets, capsules, and powders in vials or ampoules. Also, the unit dosage form can be a capsules, tablet, cachet, or lozenge itself, or it can be the appropriate number of any of these in packaged form.

The quantity of active component in a unit dose preparation may be varied or adjusted from 0.01 mg to 1 g according to the particular application and the potency of the active component. In medical use the drug may be administered three times daily as, for example, capsules of 100 or 300 mg. The composition can, if desired, also contain other compatible therapeutic
15 agents.

In therapeutic use, the compounds utilized in the pharmaceutical method of this invention are administered at the initial dosage of about 0.1 mg to about 1g daily. The dosages, however, may be varied depending upon the requirements of the patient, the severity of the condition being treated, and the compound being employed. Determination of the proper dosage for a
20 particular situation is within the skill of the art. Generally, treatment is initiated with smaller dosages that are less than the optimum dose of the compound. Thereafter, the dosage is increased by small increments until the optimum effect under the circumstances is reached. For convenience, the total daily dosage may be divided and administered in portions during the day, if
25 desired.
30 desired.

The following Examples illustrate the preparation of the compounds of the present invention. They are not meant to be limiting in scope. Melting

points are uncorrected. NMR data are reported in parts per million and are referenced to the deuterium lock signal from the sample solvent.

Example 1

(4S,5R)-4-Methyl-3-pentanoyl-5-phenyl-oxazolidin-2-one

5 To a 0°C stirred solution of valeric acid (3.83 mL, 35.2 mmol) and Et₃N (14.7 mL, 106 mmol) in dry THF (175 mL) was added trimethylacetyl chloride (5.29 mL, 42.3 mmol) dropwise. The mixture was stirred at 0°C for 1 hour and (4S,5R)-(-)-4-methyl-5-phenyl-2-oxazolidinone (7.50 g, 42.3 mmol) was added followed by LiCl (1.79 g, 42.3 mmol). The reaction was warmed to room
10 temperature overnight with good stirring. The mixture was filtered and the filtrate was concentrated under reduced pressure. Et₂O (75 mL) was added to the residue, which was washed with sat. NaHCO₃ (3 x 40 mL), 1N HCl (3 x 40 mL), and brine (2 x 40 mL). The organic phase was dried over MgSO₄, filtered and concentrated under reduced pressure to give a quantitative yield
15 of crude product.

(4S,5R)-3-((S)-2-Ethyl-pentanoyl)-4-methyl-5-phenyl-oxazolidin-2-one

 To a -78°C stirred solution of the (4S,5R)-4-Methyl-3-pentanoyl-5-phenyl-oxazolidin-2-one (9.20 g, 35.2 mmol) in dry THF (150 mL) was added
20 NaHMDS (42.2 mL, 1.0 M in THF) dropwise. After 1 hour, ethyl trifluoromethanesulfonate (5.93 mL, 45.7 mmol) was added dropwise and the reaction was stirred at -78°C for an additional 2 hours. The reaction was warmed to -30°C for 30 minutes and quenched with sat. NH₄Cl. The layers were separated and the aqueous layer was extracted with EtOAc (3 x 40 mL).
25 The organic extracts were combined and washed with brine (2 x 40 mL). The organic phase was dried over MgSO₄, filtered, and concentrated under reduced pressure to yield 8.05 g of crude product.

(S)-2-Ethyl-pentan-1-ol

30 To a room temperature solution of the (4S,5R)-3-((S)-2-ethyl-pentanoyl)-4-methyl-5-phenyl-oxazolidin-2-one (8.05 g, 27.8 mmol) in THF

(200 mL) was added a solution of NaBH_4 (4.21 g, 111 mmol) in H_2O (90 mL). The reaction was allowed to stir overnight at room temperature, was quenched with 2N HCl (75 mL) and the layers were separated. The aqueous layer was extracted with EtOAc (4 x 40 mL), and the organic extracts were combined and washed with brine (2 x 30 mL). The organic phase was dried over MgSO_4 , filtered and concentrated under reduced pressure. The residue was triturated with n-hexanes (2 x 20 mL) to remove the oxazolidinone side product. After filtering off the oxazolidinone, the filtrate was concentrated under reduced pressure to yield 2.56 g of crude product.

Methanesulfonic acid (S)-2-ethyl-pentyl ester

To a -10°C stirred solution of (S)-2-ethyl-pentan-1-ol (1.30 g, 11.2 mmol) in dry CH_2Cl_2 (35 mL) was added Et_3N (2.33 mL, 16.8 mmol). The reaction was stirred at this temperature for 15 minutes and methanesulfonyl chloride (0.952 mL, 12.3 mmol) was added. The reaction was allowed to warm to room temperature overnight with good stirring. The reaction was washed with 1N HCl (3 x 30 mL), sat. NaHCO_3 (3 x 30 mL), and brine (2 x 30 mL). The organic phase was dried over MgSO_4 , filtered and concentrated under reduced pressure to give a quantitative yield of crude product.

(S)-3-Iodomethyl-hexane

To a stirred solution of methanesulfonic acid (S)-2-ethyl-pentyl ester (2.18 g, 11.2 mmol) in acetone (35 mL) was added NaI (3.36 g, 22.4 mmol) and the reaction was heated to reflux overnight with good stirring. The reaction was allowed to cool to room temperature and the mixture was filtered. The salts were washed with acetone (3 x 15 mL) and H_2O (60 mL) was added to the filtrate. The aqueous phase was extracted with hexanes (4 x 30 mL) and the organic extracts were combined and washed with brine (2 x 30 mL). The organic phase was dried over MgSO_4 , filtered and concentrated under reduced pressure. The residue was purified by chromatography using hexanes (100%) to yield 1.24 g (49%) of pure product.

(2S,5R)-2-tert-Butyl-5-((S)-2-ethyl-pentyl)-3-methyl-4-oxo-tetrahydro-pyrimidine-1-carboxylic acid methyl ester

To a -78°C stirred solution of (S)-2-tert-butyl-3-methyl-4-oxo-tetrahydro-pyrimidine-1-carboxylic acid methyl ester (1.04 g, 4.57 mmol) in dry THF (15 mL) was added NaHMDS (5.03 mL, 1.0 M in THF) dropwise. The reaction was stirred at -78°C for 1 hour and then a solution of (S)-3-iodomethyl-hexane (1.24g, 5.48 mmol) in dry THF (5 mL) was added dropwise. The reaction was stirred at this temperature for 2 hours and then was placed in a -10°C refrigerator overnight. The reaction was quenched with sat. NH_4Cl (20 mL) and was allowed to warm to room temperature. The layers were separated and the aqueous layer was extracted with EtOAc (3 x 15 mL). The organic extracts were combined and washed with brine (2 x 15 mL). The organic phase was dried over MgSO_4 , filtered and concentrated under reduced pressure. The product was purified by chromatography using hexanes/EtOAc (10- $\rightarrow$ 20%) to yield 0.185 g (12%) of pure product. ^1H NMR (400 MHz, CD_3OD) δ ppm 0.9 (m, 6 H), 1.3 (m, 5 H), 1.4 (m, 3 H), 1.7 (m, 1 H), 2.5 (m, 1 H), 2.9 (d, $J=6.6$ Hz, 2 H). MS: M+1 (328).

(2R,4S)-2-Aminomethyl-4-ethyl-heptanoic acid

A stirred solution of (2S,5R)-2-tert-butyl-5-((S)-2-ethyl-pentyl)-3-methyl-4-oxo-tetrahydro-pyrimidine-1-carboxylic acid methyl ester (0.185 g, 0.567 mmol) in a 1:1 mixture of 6N HCl/dioxane (8 mL) was heated at 105°C for 6 days. The reaction was cooled to room temperature and concentrated under reduced pressure. The product was dissolved in 1:1 MeOH/ H_2O and loaded onto an ion exchange chromatography column (Varian SCX-Prepacked 10g, 60 mL) and eluted with 1:1 MeOH/ H_2O (95%) + NH_4OH . The fractions containing product were collected and concentrated under reduced pressure to yield 0.06 g (57%) of product. ^1H NMR (400 MHz, CD_3OD) δ ppm 0.9 (m, 6 H), 1.3 (m, 5 H), 1.4 (m, 3 H) 1.7 (m, 1 H), 2.5 (m, 1 H), 2.9 (d, $J=6.6$ Hz, 2 H). MS: M+1 (188).

Using the above methodology the following compounds were also made:

Compound Name	MS, APCI ⁺	¹ H NMR, 400 MHz, δ , PPM, CD ₃ OD
(4R)-2-Aminomethyl-4-ethyl-heptanoic acid	188 (M+1)	0.9 (s, 6 H), 1.3 (m, 5 H), 1.4 (m, 3 H), 1.7 (s, 1 H), 2.5 (m, 1 H), 2.9 (d, $J=6.1$ Hz, 2 H)
(2R,4S)-2-Aminomethyl-4-7-dimethyl-octanoic acid	202 (M+1)	0.9 (d, $J=6.6$ Hz, 6 H), 0.9 (d, $J=6.6$ Hz, 3 H), 1.2 (m, 4 H), 1.2 (m, 1 H), 1.4 (m, 1 H), 1.5 (m, 2 H), 1.7 (m, 1 H), 2.5 (m, 1 H), 2.9 (d, 2 H)
(2S,4S)-2-Aminomethyl-4-ethyl-8-methylnonanoic acid	230 (M+1)	2.93(d,2H), 2.47(5-line m,1H),1.72(m,1H), 1.54(7-line m, 1H), 1.42-1.11(m,10H), 0.85(d,3H)
(2R/S,4S)-2-Aminomethyl-8-methyl-4-propyl-nonanoic acid	257 (M+1)	2.93(d,2H), 2.44(5-line m, 1H), 1.72(m,1H), 1.55(7-line m,1H), 1.44(m,1H), 1.40-1.10(m, 11H), 0.89(d,3H)
(2S,4S)-2-Aminomethyl-4-ethyl-6-methyl-heptanoic acid.	202 (M+1)	2.93 (d, 2 H), 2.43 (m, 1 H), 1.71 (m, 1 H), 1.63 (m, 1 H), 1.42 (m, 1 H), 1.36 (m, 2H), 1.22 (m, 1 H), 1.06 (m, 2 H), 0.85 (m, 9 H)
(2R,4S)-2-Aminomethyl-4-ethyl-6-methyl-heptanoic acid	202 (M+1)	2.89 (d, 2 H), 2.43 (m, 1 H), 1.62 (m, 2 H), 1.44 (m, 1 H), 1.34 (m, 1 H), 1.22 (m, 2 H), 1.12 (m, 1 H), 1.05 (m, 1 H), 0.80 (m, 9 H)
(2R,4R)-2-Aminomethyl-4-ethyl-6-methyl-heptanoic acid	202.1 (M+1)	2.90 (d, 2 H), 2.43 (m, 1 H), 1.68 (m, 1 H), 1.61 (m, 1 H), 1.42 (m, 1 H), 1.32 (m, 2 H), 1.21 (m, 1 H), 1.11 (m, 2 H), 0.80 (m, 9 H)

Compound Name	MS, APCI ⁺	¹ H NMR, 400 MHz, δ , PPM, CD ₃ OD
(2S,4R)-2-Aminomethyl-4-ethyl-6-methyl-heptanoic acid	202 (M+1)	2.94 (d, 2 H), 2.23 (m, 1 H), 1.62 (m, 2 H), 1.44 (m, 1 H), 1.42 (m, 1 H), 1.22 (m, 2 H), 1.13 (m, 1 H), 1.03 (m, 1 H), 0.85 (m, 9 H)

Example 2

(R)-3-((R)-3-Methyl-hexanoyl)-4-phenyl-oxazolidin-2-one

To the copper (1) bromide dimethylsulfide complex (13.34g, 64.87mmol) in dry THF (150ml) at -30°C under Nitrogen was added a 2M ether solution of Propylmagnesiumchloride (64.87ml, 129.7mmol) and stirred for 20min. (R)-3-But-2-enoyl-4-phenyl-oxazolidin-2-one (15.0g, 64.87mmol) in THF (60ml) was added over a 15 min period at -35°C and let slowly warm up to room temperature over 4hr. The mixture was cooled to 0°C and quenched with saturated ammonium chloride solution. The suspension was extracted into ether, washed with 5% ammonium hydroxide solution and then with brine and dried over MgSO₄. The solution was concentrated under reduced pressure to afford the titled compound (13.34g; 100 %) as a white solid. ¹H NMR (400 MHz, CDCl₃) δ ppm 0.8 (m, 6 H) 1.2 (m, 3 H) 1.6 (s, 1 H) 2.0 (m, 1 H) 2.7 (dd, *J*=16.1, 8.5 Hz, 1 H) 3.0 (dd, *J*=15.9, 5.4 Hz, 1 H) 4.3 (dd, *J*=8.9, 3.8 Hz, 1 H) 4.7 (t, *J*=8.9 Hz, 1 H) 5.4 (dd, *J*=8.8, 3.9 Hz, 1 H) 5.4 (dd, *J*=8.8, 3.9 Hz, 1 H) 7.3 (m, 5 H). MS, *m/z* (relative intensity): 276 [M+1H, 100%].

(R)-3-((2R,3R)-2,3-Dimethyl-hexanoyl)-4-phenyl-oxazolidin-2-one

To a 1M THF solution of Sodium hexamethyldisylamide (16.2g, 88.3mmol) at -78°C was added via canular a 0°C solution of (R)-3-((R)-3-methyl-hexanoyl)-4-phenyl-oxazolidin-2-one (18.7g, 67.9mmol) in 70ml dry THF. The resulting solution was stirred at -78°C for 30 min. Methyl iodide (48.2g, 339.5mmol) was added and stirring at -78°C was continued for 4hr. It was quenched with saturated ammonium chloride solution, extracted into

CH₂Cl₂ and washed with 1M sodium Bisulfite. The solution was dried over MgSO₄, concentrated and Chromatographed in 10% ethylacetate in hexane to give the titled compound (11.1g, 56.5%) as an oil. MS, m/z (relative intensity): ¹H NMR (400 MHz, CDCl₃) δ ppm 0.8 (t, J=7.0 Hz, 3 H) 0.9 (d, J=6.6 Hz, 3 H) 1.0 (d, J=6.8 Hz, 3 H) 1.0 (d, J=8.5 Hz, 1 H) 1.1 (m, 1 H) 1.4 (m, 1 H) 1.7 (m, 1 H) 3.7 (m, 1 H) 4.2 (dd, J=8.8, 3.4 Hz, 1 H) 4.6 (t, J=8.7 Hz, 1 H) 5.4 (dd, J=8.7, 3.3 Hz, 1 H) 7.2 (m, 2 H) 7.3 (m, 3 H). MS, m/z (relative intensity):290 [M+1H, 100%].

10 (2R,3R)-2,3-Dimethyl-hexan-1-ol

A 1M THF solution of LAH (95.9ml, 95.9mmol) was added to (R)-3-((2R,3R)-2,3-dimethyl-hexanoyl)-4-phenyl-oxazolidin-2-one (in THF (300ml) under nitrogen at -78°C and stirred for 3 hr at that temperature. Water was added dropwise to quench the excess LAH and then poured into a mixture of ice and ether. The mixture was extracted into ether, washed with water and dried over MgSO₄. The solution was concentrated followed by the addition of excess hexane. The resulting white precipitate was filtered and washed with hexane. The filtrate was concentrated to afford the titled compound (5.05g, 100%) as an oil. ¹H NMR (400 MHz, CDCl₃) δ ppm 0.9 (m, 9 H) 1.0 (d, J=6.8 Hz, 1 H) 1.1 (m, 1 H) 1.2 (m, 3 H) 1.6 (m, 2 H) 3.4 (m, 1 H) 3.6 (m, 1 H).

(2R,3R)-2,3-Dimethyl-hexanal

Pyridinium chlorochromate (27.35g, 126.9mmol) and neutral alumina (96g, 3.5g per gram of pyridinium chlorochromate) in dry dichloromethane (200ml) was stirred under nitrogen for 0.25hr. (2R,3R)-2,3-Dimethyl-hexan-1-ol (5.0g, 38.46mmol) in dichloromethane (60ml) was added and the resulting dark slurry was stirred at room temperature for 3hr. The slurry was filtered through a short pad of silica eluting with excess dichloromethane. Evaporation of the solvent afforded the titled compound (4.1, 84%) as an oil. ¹H NMR (400 MHz, CDCl₃) δ ppm 0.8 (m, 3 H) 0.9 (d, J=6.6 Hz, 3 H) 1.0 (d, J=6.6 Hz, 3 H) 1.2 (m, 4 H) 1.8 (m, 1 H) 2.2 (m, 1 H) 9.6 (s, 1H).

4-Methyl-benzenesulfinic acid ((2R,3R)-2,3-dimethyl-hexylidene)-amide

Titanium(IV) ethoxide (5.16g, 22.6mmol) and (S)-(+)-p-

toluenesulfinamide(7.02g, 45.2mmol) were added to (2R,3R)-2,3-dimethyl-

5 hexanal (2.9g, 22.6mmol) in dry THF (30ml). The resulting mixture was stirred at room temperature for 18 hr and poured into a brine solution (40ml).

The slurry was rapidly stirred for 10 minutes and filtered. The filtrate was extracted into ethyl acetate, washed with brine and dried over MgSO_4 . The solvent was evaporated and the residue was filtered through a silica plug,

10 eluting with 50/50 solution of hexane/ethyl acetate to afford the titled compound (3.1g, 51.6%) as an oil. ^1H NMR (400 MHz, CDCl_3) δ ppm 0.8 (m, 6H) 1.1 (m, 4H) 1.3 (m, 3H) 1.7 (m, 1 H) 2.4 (s, 3 H) 2.5 (m, 1H) 7.3 (d, $J=8.3$ Hz, 2 H) 7.5 (d, $J=8.1$ Hz, 2 H) 8.1 (d, $J=5.4$ Hz, 1 H). MS, m/z (relative intensity): 266 [$M+1\text{H}$, 100%].

15

(4R,5R)-4,5-Dimethyl-(R)-3-(toluene-4-sulfinylamino)-octanoic acid tert-butyl ester

Butyl lithium (26.3ml, 42.04mmol) was added to a solution of diisopropylamine (4.6g, 45.6mmol) in dry THF (40ml) under nitrogen at 0°C and stirred for 20 minutes. The solution was cooled to -78°C followed by the addition of t-butyl acetate (4.1g, 35.0mmol) and stirred at that temperature for 45 minutes. Chlorotitanium triisopropoxide (9.4g, 36.2mmol) was added dropwise and stirring was continued for 30 minutes at -78°C . A -50°C solution of 4-methyl-benzenesulfinic acid ((2R,3R)-2,3-dimethyl-hexylidene)-amide

25 (3.1g, 11.7mmol) in dry THF (10ml) was added to the reaction and the resulting mixture was stirred at -78°C for 4hr. The reaction was quenched with a saturated solution of NaH_2PO_4 and extracted into ethyl acetate. The solution was dried over MgSO_4 and concentrated. The resulting residue was chromatographed on silica, eluting with 15% ethyl acetate in hexane to give

30 the titled compound (2.4g, 53.9%) as white solid. ^1H NMR (400 MHz, CDCl_3) δ ppm 0.9 (m, 6 H) 1.0 (d, $J=6.6$ Hz, 3 H) 1.1 (m, 1 H) 1.3 (m, 2 H) 1.4 (m, 9

H) 1.5 (m, 2 H) 2.4 (s, 3 H) 2.6 (m, 2 H) 3.8 (m, 1 H) 4.4 (d, $J=10.0$ Hz, 1 H) 7.3 (d, $J=8.1$ Hz, 2 H) 7.6 (d, $J=8.1$ Hz, 2 H). MS, m/z (relative intensity): 382 [$M+1H$, 100%], 326 [$M+1H-C(CH_3)_3$, 50%].

5 (3R,4R,5R)-3-Amino-4,5-dimethyl-octanoic acid

To the solution of (4R,5R)-4,5-dimethyl-(R)-3-(toluene-4-sulfinylamino)-octanoic acid tert-butyl ester (1.8g, 4.71mmol) in dry methanol (30ml) at 0°C under nitrogen was added excess trifluoroacetic acid (25ml) and stirred for 2 hr at that temperature. The solution was concentrated to dryness followed by the addition of dry dichloromethane (20ml) and trifluoroacetic acid (20ml). The resulting mixture was stirred for 2 hr under nitrogen and concentrated to dryness. The residue was applied to BondElute SCX ion exchange resin and eluted with water until the eluent was at constant pH of 6.5. The resin was then eluted with a 1:1 solution of methanol and with 10% ammonium hydroxide solution. The ammonium hydroxide solution was evaporated and the residue was crystallized with methanol-acetonitrile mixture to afford the titled compound (0.717g, 81.2%) as a white solid. 1H NMR (400 MHz, CD₃OD-D) δ ppm 0.9 (m, 11 H) 1.1 (m, 2 H) 1.3 (m, 1 H) 1.4 (m, 1 H) 1.6 (m, 1 H) 1.7 (m, 2 H) 2.3 (dd, $J=16.6, 10.0$ Hz, 1 H) 2.5 (dd, $J=16.7, 3.5$ Hz, 1 H) 3.3 (m, 1 H). MS, m/z (relative intensity): 188 [$M+1H$, 100%], 186 [$M-1H$, 100%].

Example 3

(S)-4-Methyl-hexan-2-one (2)

25 The Grignard reagent made from (S)-1-bromo-2-methyl-butane (10 g, 66.2 mmol) and Mg (1.77 g, 72.8 mmol) in Et₂O (65 ml) was added dropwise to a solution of acetic anhydride (8.1 g, 79.3 mmol) in Et₂O (65 ml) at -78°C in 1 h. Lots of white solid precipitated. The reaction mixture was stirred at -78°C for 1 h. Then the temperature was allowed to slowly rise to RT. The reaction was quenched with saturated NH₄Cl aqueous solution (150 ml). The ether phase was washed by 1 N NaOH (150 ml) and brine (150 ml). Stripped ether 30 at 0°C. The residual oil was dissolved in hexane (50 ml). The solution was

dried by anhydrous Na_2SO_4 and evaporated at 0°C under reduced pressure to give (S)-4-methyl-hexan-2-one (5.7 g, 75%) as a light orange oil. ^1H NMR (CDCl_3) δ 2.26 (m, 2H), 2.08 (s, 3H), 1.86 (m, 1H), 1.21 (m, 2H), 0.83 (m, 6H); MS (APCI) $(\text{M}+1)^+$ 115.0.

5

(S)-2-Methyl-propane-2-sulfinic acid ((3S)-1,3-dimethyl-pentylidene)-amide.

A mixture of (S)-4-methyl-hexan-2-one (1.6 g, 14 mmol), (S)-2-methyl-propane-2-sulfinic acid amide (1.7 g, 14 mmol) and titanium(IV) ethoxide (6.4 g, 28 mmol) in THF (30 ml) was refluxed for 10 h. Then the reaction mixture was poured into brine (150 ml). The mixture was filtered. The filtrate was extracted by EtOAc (3x70 ml). Stripped EtOAc. The residue was purified by a silica gel column (Hexane/EtOAc 3:1) to give the titled compound (1.93 g, 63%) as a colorless oil. ^1H NMR (CDCl_3) δ 2.24 (m, 2H), 2.27 (s, 3H), 1.85 (m, 1H), 1.22 (m, 2H), 1.20(s, 9H), 0.85 (m, 6H); MS (APCI) $(\text{M}+1)^+$ 218.1.

15

(3S,5S)-3,5-Dimethyl-3-((S)-2-methyl-propane-2-sulfinylamino)-heptanoic acid methyl ester

To a solution of diisopropylamine (3.1 ml, 22.2 mmol) in THF (40 ml) at -78°C was added butyllithium (14.4 ml, 1.6 M, 23 mmol) slowly. The mixture was stirred at 0°C for 25 min and subsequently cooled down to -78°C . Methyl acetate (1.76 ml, 22.2 mmol) in THF (7 ml) was added. After Stirring for 20 min, chlorotitaniumtriisopropoxide (11 ml, 46.2 mmol) in THF (10 ml) was added and the resulting mixture was stirred at -78°C for 20 min. (S)-2-Methyl-propane-2-sulfinic acid ((3S)-1,3-dimethyl-pentylidene)-amide (1.9 g, 8.9 mmol) in THF (10 ml) was added. The mixture was stirred at -78°C overnight. The reaction was quenched by NH_4Cl solution (50 ml). The mixture was filtered. The filtrate was extracted by EtOAc (3x70 ml). Stripped EtOAc. The residue was purified by a silica gel column (Hexane/EtOAc 1:1) to give the titled compound (1.61 g, 62%) as a colorless oil. ^1H NMR (CDCl_3) δ 3.64 (s, 3H), 2.60 (m, 2H), 1.47 (m, 2H), 1.44 (m, 1H), 1.36(s, 3H), 1.27 (m,

30

2H), 1.19 (s, 9H), 0.90 (d, J=6.4 Hz, 3H), 0.81 (t, J=7.6 Hz, 3H); MS (APCI) (M+1)⁺ 292.2.

(3S,5S)-3-Amino-3,5-dimethyl-heptanoic acid

5 A mixture of (3S,5S)-3,5-dimethyl-3-((S)-2-methyl-propane-2-sulfinylamino)-heptanoic acid methyl ester (0.4 g, 1.37 mmol) and concentrated hydrochloric acid (7.6ml) in acetone (10 ml) was refluxed for 3 h. The solvents were stripped under reduced pressure. The residue was dissolved in water (10 ml) and extracted by EtOAc (2x15 ml). The aqueous
10 phase was evaporated to dryness. The residue was dissolved in a mixture of water (10 ml) and triethylamine (0.5 ml). The mixture was stirred at 40°C for 20 min and then was evaporated to dryness. The residue was washed thoroughly with acetonitrile, filtered, and dried under vacuum to give the final product, (3S,5S)-3-Amino-3,5-dimethyl-heptanoic acid (0.182 g, 77%) as a
15 white solid. m.p. 215-217°C. ¹H NMR (CDCl₃) δ 4.85 (s, 3H), 2.38 (m, 2H), 1.75 (m, 1H), 1.39 (m, 4H), 1.35(s, 3H), 0.98 (d, J=6.6 Hz, 3H), 0.90 (t, J=7.5 Hz, 3H); MS (APCI) (M+1)⁺ 174.1.

Using the above methodology the following compounds were also made.

20

Compound Name	MS, APCI ⁺	¹ H NMR, 400 MHz, δ, PPM, CD ₃ OD
(3R,5S)-3-Amino-3,5-dimethyl-heptanoic acid	174 (M+1)	4.84 (s, 3H), 2.38 (m, 2H), 1.58 (m, 1H), 1.37 (m, 4H), 1.34(s, 3H), 0.98 (d, J=6.3 Hz, 3H), 0.91 (t, J=7.4 Hz, 3H)
(3S,5R)-3-Amino-3,5-dimethyl-heptanoic acid	174 (M+1)	4.84 (s, 3H), 2.38 (m, 2H), 1.58 (m, 1H), 1.37 (m, 4H), 1.34(s, 3H), 0.98 (d, J=6.3 Hz, 3H), 0.91 (t, J=7.4 Hz, 3H)

Compound Name	MS, APCI ⁺	¹ H NMR, 400 MHz, δ , PPM, CD ₃ OD
(3R)-3-Amino-3,5-dimethyl-octanoic acid	188 (M+1)	4.84 (s, 3H), 2.39 (m, 2 H) 1.72 (m, 1H) 1.59 (s, 3 H) 1.38 (m, 6 H) 0.98 (d, J = 6.1Hz, 3H), 0.91 (m, 3H)
(3R, 4R/S)-3-Amino-4-methyl-heptanoic acid	160 (M+1)	0.98 (m, 6 H) 1.20 (m, 1H) 1.32 (m, 1 H) 1.43 (m, 2 H) 1.78 (m, 1 H), 2.32 (m, 1 H) 2.47 (m, 1 H) 3.30 (m, 1 H)
(3S,6R)-3-Amino-8-cyclohexyl-6-methyl-octanoic acid	256 (M+1)	0.87 (m, 2H) 0.88 (dd, J=15.86, 6.10 Hz, 3 H) 1.20 (m, 11 H) 1.39 (m, 4 H) 1.69 (m, 6 H) 2.53 (dd, J=17.32, 8.05 Hz, 1 H) 2.69 (m, 1 H) 3.44 (ddd, J=14.70, 6.89, 4.76 Hz, 1 H)

Example 4

(3R)-(3,7-Dimethyl-oct-6-enyl)-cyclohexane

A flask was charged with 100 mL dry THF and cooled to 0°C. To this
 5 flask was added 103 mL (205 mmol) 2 M cyclohexylmagnesium chloride in
 diethylether. Then 2.30 g (17 mmol) copper (II) chloride was taken up in 60
 mL THF and added as a slurry to the Grignard reagent. To this mixture was
 added 0.73 g (17.1 mmol) lithium chloride, and the mixture was stirred at 0°C
 for 30 min. Then 13.5 mL (68.4 mmol) of (S)-citronellyl bromide was added,
 10 and the mixture was stirred 2 h at 0°C. The reaction mixture was allowed to
 warm to room temperature and stirred overnight. The reaction was quenched
 by the addition of sat. aq. NH₄Cl until bubbling ceased. The THF was
 removed under reduced pressure. The residue was taken up in water and
 extracted with diethyl ether. The combined ether layers were dried over
 15 MgSO₄. The drying agent was removed by filtration. The solvent was

removed under reduced pressure to yield 11.48 g (76%) of a clear oil. The crude long-chain alkyl was not readily characterized, and was carried on without further purification.

5 3-((R)-5-Cyclohexyl-3-methyl-pentyl)-2,2-dimethyl-oxirane

A flask was charged with 11.48 g (51.6 mmol) of crude (3R)-(3,7-Dimethyl-oct-6-enyl)-cyclohexane, 100 mL of dichloromethane, and 9.33 g (111 mmol) of sodium bicarbonate. The mixture was cooled in a 0°C bath. Slowly 11.6 mL (55.2 mmol) 32% peracetic acid was added. The mixture was stirred for 4 h at 0°C. Then 10% aqueous sodium sulfite was added slowly until bubbling ceased. The layers were separated, and the organic layer was washed twice with 10 % aqueous sodium sulfite and dried over magnesium sulfate. The drying agent was removed by filtration, and the solvent was removed under reduced pressure. The remaining residue was 10.65 g (87%) of a clear oil. ¹H NMR (400 MHz, CDCl₃) ppm 0.86 (m, 5 H) 1.00 (d, J=6.59 Hz, 2 H) 1.14 (m, 7 H) 1.25 (s, 3 H) 1.29 (s, 3 H) 1.35 (m, 2 H) 1.50 (m, 3 H) 1.65 (m, 5 H) 2.68 (td, J=6.16, 1.83 Hz, 1 H). MS (APCI) m+1/z = 239.

(R)-6-Cyclohexyl-4-methyl-hexanal

20 A flask was charged with 10.65 g (44.7 mmol) of 3-((R)-5-cyclohexyl-3-methyl-pentyl)-2,2-dimethyl-oxirane, 70 mL of acetone, 12.3 g (53.6 mmol) of potassium periodate, 70 mL of water, and 0.765 g (4 mmol) of tosic acid-monohydrate. The mixture was stirred for 46 h. The acetone was removed under reduced pressure, and the mixture was diluted with water. The aqueous layer was extracted with hexanes and dried with sodium sulfate. The drying agent was filtered off and solvent was removed under reduced pressure to get 7.12 g (81%) of a clear oil. ¹H NMR (400 MHz, CDCl₃) ppm 0.87 (m, 5 H) 1.13 (m, 3 H) 1.25 (m, 5 H) 1.66 (m, 8 H) 2.40 (m, 2 H) 9.75 (s, 1 H). MS (APCI) m+1/z is inconclusive.

30

(R)-6-Cyclohexyl-4-methyl-hexanoic acid

A flask was charged with 7.12 g (36.3 mmol) of (R)-6-cyclohexyl-4-methyl-hexanal, 40 mL water, 20 mL acetone, 4 mL acetic acid, and 6.18 g (39.9 mmol) potassium permanganate. The mixture was stirred vigorously overnight. The mixture was then treated with sat. aqueous sodium bisulfite until the liquid became clear. The liquid was extracted with hexanes. The combined hexane layers were washed with sat. aqueous sodium bisulfite until the hexane layer was clear. The hexane phases were dried with magnesium sulfate. The drying agent was filtered off and the solvent was removed under reduced pressure, which yielded 4.17 g (54%) of a clear oil. ¹H NMR (400 MHz, CDCl₃) ppm 0.89 (m, 5H), 1.13 (m, 3 H) 1.25 (m, 5 H) 1.66 (m, 8 H) 2.40 (m, 2 H). MS (APCI) m+1/z = 211.

(4R,5S)-3-((R)-6-Cyclohexyl-4-methyl-hexanoyl)-4-methyl-5-phenyl-oxazolidin-2-one

A flask was charged with 4.17 g (19.6 mmol) of (R)-6-cyclohexyl-4-methyl-hexanoic acid, 40 mL of THF, and 8.56 mL (61.4 mmol) of triethylamine. The mixture was cooled in a 0°C bath, and 2.41 mL (19.6 mmol) pivaloyl chloride was added. The mixture was stirred for 1 h at 0°C. Then 2.79 g (16.4 mmol) of (4R,5S)-4-methyl-5-phenyl-2-oxazolidinone and 0.823 g (19.6 mmol) of lithium chloride were added as solids. The mixture was allowed to warm to room temperature and stirred overnight. The resulting solids were filtered off. The solvent was stripped, and the residue was purified by column chromatography (eluent: 4:1 hexanes/ ethyl acetate) to give 6.09 g (quant.) of a clear oil. ¹H NMR (400 MHz, CDCl₃) δ ppm 0.89 (m, 8 H) 1.16 (m, 6 H) 1.68 (m, 9 H) 2.87 (m, 1 H) 2.99 (m, 1 H) 4.76 (qd, J=6.83, 6.59 Hz, 1 H) 5.66 (d, J=7.32 Hz, 1 H) 7.30 (m, 2 H) 7.40 (m, 3 H). MS (APCI) m+1/z = 372.

(5R,3S)-7-Cyclohexyl-5-methyl-3-((4R,5R)-4-methyl-2-oxo-5-phenyl-oxazolidine-3-carbonyl)-heptanoic acid tert-butyl ester

A dry flask was charged with 60 mL of THF, 2.87 mL (20.5 mmol) of diisopropyl amine, and the resulting solution was cooled in a -78°C bath. To this solution was added 13.3 mL (19.7 mmol) of 1.48 M n-butyl lithium solution. The mixture was allowed to warm to 0°C and was stirred for 30 min. at this temperature. The LDA solution was cooled again to -78°C , and 6.10 g (16.4 mmol) of (4R,5S)-3-((R)-6-cyclohexyl-4-methyl-hexanoyl)-4-methyl-5-phenyl-oxazolidin-2-one was added dropwise as a solution in 35 mL of THF. The mixture was stirred for 45 min. at -78°C , and was then allowed to warm slowly to -20°C over 2.5 h. The reaction mixture was quenched by the addition of sat. aq. ammonium chloride. The solvent was removed under reduced pressure, and the residue was partitioned between diethyl ether and water. The ether layer was collected and washed successively with sat. aq. ammonium chloride solution and sat. aq. sodium bicarbonate solution. The ether layer was dried with magnesium sulfate. The solvent was removed under reduced pressure, and the residue was purified by column chromatography (eluent 10:1 hexanes: ethyl acetate). This gave 4.13 g (52%) of a white solid. ^1H NMR (400 MHz, CDCl_3) δ ppm 0.88 (m, 8 H) 1.14 (m, 8 H) 1.39 (m, 12 H) 1.67 (m, 6 H) 2.41 (dd, $J=16.47$, 5.00 Hz, 1 H) 2.70 (dd, $J=16.47$, 9.64 Hz, 1 H) 4.31 (m, $J=9.58$, 7.29, 7.29, 5.12 Hz, 1 H) 4.75 (qd, $J=6.75$, 6.59 Hz, 1 H) 5.64 (d, $J=7.08$ Hz, 1 H) 7.31 (m, 2 H) 7.38 (m, 3 H). MS (APCI) $m+1/z = 430$ (loss of t-Bu group).

(S)-2-((R)-4-Cyclohexyl-2-methyl-butyl)-succinic acid 4-tert-butyl ester

A flask was charged with 4.13 g (8.50 mmol) of (5R,3S)-7-cyclohexyl-5-methyl-3-((4R,5R)-4-methyl-2-oxo-5-phenyl-oxazolidine-3-carbonyl)-heptanoic acid tert-butyl ester, 100 mL of THF, 25 mL of water, and the resulting mixture was cooled in a 0°C bath. To this solution was added 0.57 g (13.6 mmol) of lithium hydroxide monohydrate and 3.48 mL (34 mmol) of 30% hydrogen peroxide. The mixture was stirred 2.5 h. The reaction was quenched by the addition of 4.29 g (34 mmol) of sodium sulfite in 26 mL water. The mixture

was allowed to warm to room temperature and stirred overnight. The THF was removed under reduced pressure and the remaining material was further diluted with water. The water layer was made acidic by the slow addition of conc. HCl aq. The aqueous layer was extracted with dichloromethane. The organic layers were dried with magnesium sulfate. The resulting oil was purified by column chromatography (eluent 3:1 hexanes: ethyl acetate). This gave 2.19 g (79%) of a clear oil. ¹H NMR (400 MHz, CDCl₃) δ ppm 0.88 (m, 5 H) 1.17 (m, 10 H) 1.43 (s, 10 H) 1.68 (m, 7 H) 2.35 (dd, J=16.35, 5.37 Hz, 1 H) 2.60 (m, 1 H) 2.87 (m, J=9.09, 9.09, 5.61, 5.49 Hz, 1 H). MS (APCI) m+1/z is inconclusive.

(3S,5R)-3-Amino-7-cyclohexyl-5-methyl-heptanoic acid methyl ester

A flask was charged with 2.19 g (6.71 mmol) of (S)-2-((R)-4-cyclohexyl-2-methyl-butyl)-succinic acid 4-tert-butyl ester, 40 mL of toluene, 0.935 mL (6.71 mmol) of triethylamine, and 1.45 mL (6.71 mmol) of diphenylphosphoryl azide. The mixture was stirred for 15 min. at room temperature and then heated to 110°C and stirred for 6 h. The toluene was removed under reduced pressure, and the residue was taken up in diethyl ether. The ether layer was washed with 3M HCl aq., water, and brine. The ether was removed under reduced pressure, and the crude isocyanate was taken up in 3 M HCl aq. and heated at reflux for 8 h. The water was removed under reduced pressure, and the residue was triturated with ether. This provided 1.45 g of an impure white solid. A portion of the white solid was dissolved in methanol, and HCl gas was bubbled through for 15 minutes. The acidic solution was stirred 2 hours. The methanol was removed under reduced pressure, and the crude ester was purified by column chromatography (4:1 dichloromethane: methanol). This gave 0.356 g of the pure ester. ¹H NMR (400 MHz, CDCl₃) δ ppm 0.85 (m, 2 H) 0.88 (d, J= 8.00 Hz, 3 H) 1.15 (m, 6 H) 1.26 (m, 1 H) 1.36 (ddd, J=13.73, 9.21, 4.64 Hz, 1 H) 1.51 (m, 1 H) 1.65 (m, 7 H) 2.28 (dd, J=15.86, 8.78 Hz, 1 H) 2.43 (dd, J= 16.0, 4.00 Hz, 1 H) 3.28 (m, J=8.97, 8.97, 4.39, 4.27 Hz, 1 H) 3.69 (s, 3 H). MS (APCI) m+1/z = 256.

(3S,5R)-3-Amino-7-cyclohexyl-5-methyl-heptanoic acid

A flask was charged with 0.356 g of (3S,5R)-3-amino-7-cyclohexyl-5-methyl-heptanoic acid methyl ester and 20 mL of 3 M HCl, and the mixture was heated at reflux overnight. The mixture was cooled to room temperature and the solvent was removed under reduced pressure. This provided 0.340 g (88%) of a white solid HCl salt. ¹H NMR (400 MHz, CD₃OD) δ ppm 0.87 (s, 2H) 0.95 (d, *J*=6.34 Hz, 3H) 1.21 (m, 6 H) 1.35 (m, 1 H) 1.43 (ddd, *J*=13.85, 8.24, 5.98 Hz, 1 H) 1.55 (ddd, *J*=12.81, 6.34, 6.22 Hz, 1 H) 1.64 (dd, *J*=8.30, 5.37 Hz, 2 H) 1.71 (m, 5 H) 2.57 (dd, *J*=17.45, 7.44 Hz, 1 H) 2.70 (m, 1H) 3.59 (m, *J*=7.72, 7.72, 5.73, 5.43 Hz, 1 H). MS (APCI) *m*+1/*z* = 242.

Example 5

(4R,5S)-3-[3-(2,4-Difluoro-phenyl)-propionyl]-4-methyl-5-phenyl-oxazolidin-2-one

A flask was charged with 29.5 g (158 mmol) of 3-(2,4-difluoro-phenyl)-propionic acid, 700 mL of THF, and 82.8 mL of triethylamine. The mixture was cooled to 0°C and 23.4 mL of trimethyl acetyl chloride was added slowly. The mixture was stirred cold for 1 h. Then 8.06 g (190 mmol) of LiCl and 28.1 g of (4S,5R)-4-methyl-5-phenyl-oxazolidin-2-one was added. The mixture was allowed to warm room temperature and stirred overnight. The solids were filtered off, and the solvent was removed under reduced pressure. The residue was taken up in diethyl ether and washed with sat. aq. ammonium chloride, sat. aq. sodium bicarbonate, and the solvent was removed under reduced pressure. The crude residue was purified by column chromatography (3:1 dichloromethane/ hexanes eluent) to give 54 g (99%) of the titled compound.

(4R,5S)-[(S)-2-(2,4-Difluoro-benzyl)-butyryl]-4-methyl-5-phenyl-oxazolidin-2-one

A flask was charged with 54 g (156 mmol) of (4R,5S)-3-[3-(2,4-difluoro-phenyl)-propionyl]-4-methyl-5-phenyl-oxazolidin-2-one and 300 mL of dry

THF, and the solution was cooled to -78°C . To this solution was added 172 mL (172 mmol) of 1 M NaHMDS in THF, and the mixture was stirred cold for 1 h. Then 30.6 g (172 mmol) of ethyl triflate was added dropwise to the enolate solution, and the reaction mixture was warmed to -40 to -30°C and stirred for 1.5 h. The reaction mixture was quenched by the addition of aqueous brine. The THF was removed under reduced pressure and the residue was partitioned between EtOAc and water. The organics were collected, and EtOAc was removed under reduced pressure. The resulting crude oil was purified by column chromatography (3:1 hexanes/ EtOAc eluent) to get 29.5 g of an impure oil that was used without further purification.

(S)-2-(2,4-Difluoro-benzyl)-butan-1-ol

A flask was charged with 29.5 g (~ 78.6 mmol) of (4R,5S)-[(S)-2-(2,4-difluoro-benzyl)-butyryl]-4-methyl-5-phenyl-oxazolidin-2-one and 200 mL dry THF, and the solution was cooled to 0°C . In a separate flask, 11.9 g (314 mmol) of sodium borohydride was taken up in 70 mL water and added dropwise over 15 minutes to the imide solution. The mixture was allowed to warm to room temperature and stirred overnight. The reaction mixture was quenched with conc. HCl until pH = 3 (keeping the reaction mixture temperature $< 20^{\circ}\text{C}$). THF was removed under reduced pressure, and the residue was taken up in hexanes. The hexane layer was washed with sat. aq. sodium bicarbonate. The hexane layer was removed under reduced pressure, and the residue was purified by column chromatography (9:1 Hexanes/ EtOAc) which gave 7.2 g (46%) of (S)-2-(2,4-difluoro-benzyl)-butan-1-ol as a clear oil.

(2S)-Methanesulfonic acid 2-(2,4-difluoro-benzyl)-butyl ester

A flask was charged with 7.2 g (36 mmol) of (S)-2-(2,4-difluoro-benzyl)-butan-1-ol and 30 mL of dichloromethane, and the solution was cooled to 0°C . To this solution was added 7.53 mL (54 mmol) of triethylamine, and the mixture was stirred cold for 5 min. Then 3.1 mL (39.6 mmol) of methane sulfonyl chloride was added dropwise. The reaction mixture was stirred at

room temperature for 16 h. The dichloromethane was removed under reduced pressure, and the residue was partitioned between 1 N HCl aq. and diethyl ether. The ether layer was collected and washed with sat. aq. sodium bicarbonate, water, and brine. The ether layer was dried over sodium sulfate,
5 filtered, and the ether was removed under reduced pressure. This procedure gave 9.54 g (95%) of (2S)-methanesulfonic acid 2-(2,4-difluoro-benzyl)-butyl ester as an orange oil. This material was used without further purification.

(S)-2,4-Difluoro-1-(2-iodomethyl-butyl)-benzene

10 A flask was charge with 9.54 g (34.3 mmol) of (2S)-methanesulfonic acid 2-(2,4-difluoro-benzyl)-butyl ester, 10.3 g (68.6 mmol) of sodium iodide, and 60 mL of acetone. The solution was heated at reflux for 30 h. The acetone was removed under reduced pressure. The residue was partitioned between water and hexanes. The organic layer was collected and washed
15 with sodium bisulfite solution and brine. The hexane was removed under reduced pressure, and the crude oil was purified by column chromatography (hexanes eluent). This procedure gave 9.7 g (91%) of (S)-2,4-difluoro-1-(2-iodomethyl-butyl)-benzene as a clear oil.

20 2-tert-Butyl-5-[2-(2,4-difluoro-benzyl)-butyl]-3-methyl-4-oxo-tetrahydro-pyrimidine-1-carboxylic acid methyl ester

A flask was charged with 1.35 mL (9.64 mmol) diisopropyl amine and 15 mL dry THF. The solution was cooled to -78°C and 6.0 mL (9.64 mmol) 1.6 M n-butyl lithium solution in hexanes was added. The mixture was
25 warmed to 0°C and stirred for 30 minutes. The mixture was cooled again to -78°C and 2.0 g (8.76 mmol) of (2S)-2-tert-butyl-3-methyl-4-oxo-tetrahydro-pyrimidine-1-carboxylic acid methyl ester was added as a solution in 10 mL of THF. This mixture was warmed to 0°C and stirred for 1 h. The anion solution was cooled again to -78°C and 2.99 g (9.64 mmol) of (S)-2,4-difluoro-1-(2-
30 iodomethyl-butyl)-benzene was added as a solution in THF. The mixture was stirred at -78°C for 4 h. The reaction mixture was warmed to -21°C and stirred at that temperature for 5 days. The reaction mixture was quenched

with sat. aq. ammonium chloride solution. The crude reaction mixture was extracted with diethyl ether. The ether was removed under reduced pressure, and the crude residue was purified by column chromatography (9:1 hexanes/EtOAc eluent) which gave 1.67 g (46%) of 2-tert-butyl-5-[2-(2,4-difluoro-benzyl)-butyl]-3-methyl-4-oxo-tetrahydro-pyrimidine-1-carboxylic acid methyl ester as a white solid.

(2R,4R)-2-Aminomethyl-4-(2,4-difluoro-benzyl)-hexanoic acid

A flask was charged with 0.5 g (1.2 mmol) of 2-tert-butyl-5-[2-(2,4-difluoro-benzyl)-butyl]-3-methyl-4-oxo-tetrahydro-pyrimidine-1-carboxylic acid methyl ester, 20 mL dioxane, and 20 mL of conc. HCl solution. The mixture was stirred and heated at 110°C for 4 days. The solvents were removed under reduced pressure. The residue was taken up in 20 mL water and 4 drops of conc. HCl solution. The aqueous layer was washed with dichloromethane. The aqueous layer was collected and the water was removed under reduced pressure. The residue was treated with 2 mL of triethylamine, and the excess triethylamine was removed under reduced pressure. The remaining solid was purified by column chromatography (1:8:27 NH₄OH, MeOH, dichloromethane eluent). The resulting white solid was washed with acetonitrile and dried under vacuum. This gave 80 mg (24%) of (2R,4R)-2-aminomethyl-4-(2,4-difluoro-benzyl)-hexanoic acid as a white solid.

It should be noted that, as used in this specification and the appended claims, singular articles such as "a," "an," and "the," may refer to a single object or to a plurality of objects unless the context clearly indicates otherwise. Thus, for example, reference to a composition containing "a compound" may include a single compound or two or more compounds.

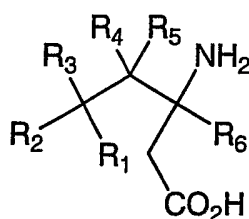
It is to be understood that the above description is intended to be illustrative and not restrictive. Many embodiments will be apparent to those of skill in the art upon reading the above description. The scope of the invention should, therefore, be determined not with reference to the above description,

but should instead be determined with reference to the appended claims, along with the full scope of equivalents to which such claims are entitled.

CLAIMS

WHAT IS CLAIMED IS:

1. A compound of formula I



5

or a pharmaceutically acceptable salt thereof, wherein

R₁ is a hydrogen atom or (C₁-C₆)alkyl optionally substituted with from one to five fluorine atoms;

10

R₂ is a hydrogen atom or (C₁-C₆)alkyl optionally substituted with from one to five fluorine atoms; or

R₁ and R₂, together with the carbon to which they are attached, form a three- to six-membered cycloalkyl ring;

15

R₃ is a hydrogen atom, (C₁-C₆)alkyl, (C₃-C₆)cycloalkyl, (C₃-C₆)cycloalkyl-(C₁-C₃)alkyl, phenyl, phenyl-(C₁-C₃)alkyl, pyridyl, or pyridyl-(C₁-C₃)alkyl, wherein the alkyl and cycloalkyl moieties or substituents are optionally substituted with from one to five fluorine atoms, and the phenyl and pyridyl substituents and the phenyl and pyridyl moieties of the phenyl-(C₁-C₃)alkyl and the pyridyl-(C₁-C₃)alkyl substituents are optionally substituted with from one to five substituents independently selected from chloro, fluoro, amino, nitro, cyano, hydroxy, (C₁-C₃)alkylamino, (C₁-C₃)alkyl optionally substituted with from one to three fluorine atoms, and (C₁-C₃)alkoxy optionally substituted with from one to three fluorine atoms;

20

R₄ is a hydrogen atom or (C₁-C₆)alkyl optionally substituted with from one to five fluorine atoms;

25

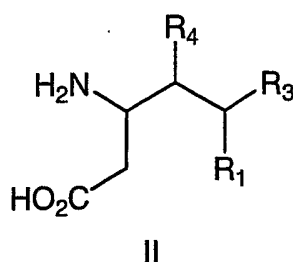
R₅ is a hydrogen atom or (C₁-C₆)alkyl optionally substituted with from one to five fluorine atoms;

R_4 and R_5 , together with the carbon to which they are attached, form a three- to six-membered cycloalkyl ring; and

R_6 is a hydrogen atom or (C_1-C_6) alkyl;

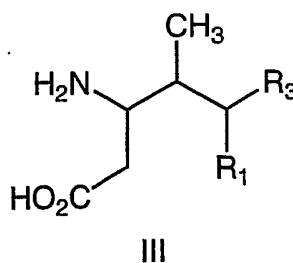
with the proviso that R_1 , R_2 , R_3 , R_4 , R_5 , and R_6 are not simultaneously hydrogen atoms.

2. A compound of Claim 1 having a structure represented by formula II



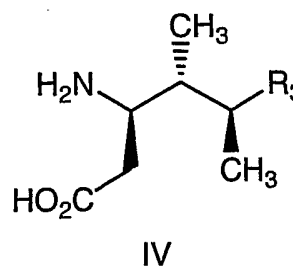
or a pharmaceutically acceptable salt thereof, wherein R_1 , R_3 , and R_4 are defined as in Claim 1 with the proviso that R_1 is not a hydrogen atom.

3. A compound of Claim 1 having a structure represented by formula III



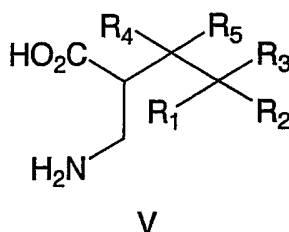
or a pharmaceutically acceptable salt thereof, wherein R_1 and R_3 are defined as in Claim 1 with the proviso that R_1 and R_3 are not hydrogen atoms.

4. A compound of Claim 3 having a structure represented by formula IV



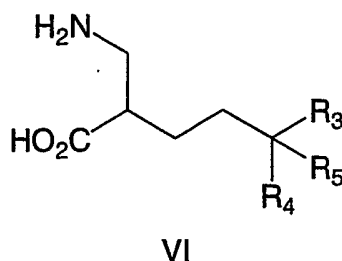
or a pharmaceutically acceptable salt thereof, wherein R_3 is defined as in Claim 1 with the proviso that R_3 is not a hydrogen atom.

5. A compound of Claim 1 having a structure represented by formula V



or a pharmaceutically acceptable salt thereof, wherein R_1 , R_2 , R_3 , R_4 , and R_5 are defined as in Claim 1 with the proviso that R_1 , R_2 , R_3 , R_4 , and R_5 are not simultaneously hydrogen atoms.

6. A compound of Claim 1 having a structure represented by formula VI



or a pharmaceutically acceptable salt thereof, wherein R_3 , R_4 , and R_5 are defined as in Claim 1 with the proviso that R_3 , R_4 , and R_5 are not simultaneously hydrogen atoms.

7. A pharmaceutical composition comprising a therapeutically effective amount of a compound of Claim 1, or a pharmaceutically acceptable salt thereof, and a pharmaceutically acceptable carrier.

8. A method of treating a disorder or condition in a mammal, including a human, the disorder or condition selected from:

epilepsy, faintness attacks, fibromyalgia, hypokinesia, cranial disorders, hot flashes, and essential tremor;

chemical dependencies and addictions to alcohol, amphetamines or amphetamine-like substances, caffeine, cannabis, cocaine, heroin,
5 hallucinogens, tobacco, inhalants and aerosol propellants, nicotine, opioids, phenylglycidine derivatives, sedatives, hypnotics, benzodiazepines and other anxiolytics;

withdrawal symptoms associated with the dependencies, addictions, or addictive behaviors, including gambling; and

10 migraine, spasticity, muscle spasticity, hypotonia with paralysis, arthritis, irritable bowel syndrome, chronic pain, acute pain, neuropathic pain, post herpetic neuralgia, lower back pain, surgical pain, vascular headache, sinus headache, chronic headache, inflammatory disorders, rheumatoid arthritis, osteoarthritis, psoriasis, disease modification of osteoarthritis
15 disease, diuresis, premenstrual syndrome, premenstrual dysphoric disorder, tinnitus, and gastric damage;

the method comprising administering to a mammal in need of such treatment a therapeutically effective amount of a compound of Claim 1 or a pharmaceutically acceptable salt thereof.

20 9. A method of treating a disorder or condition in a mammal, including a human, the disorder or condition selected from:

delirium, dementia, and amnestic or other cognitive or neurodegenerative disorders, including Parkinson's disease, Huntington's disease, Alzheimer's disease, senile dementia, dementia of the Alzheimer's
25 type, memory disorder, vascular dementia, and other dementias, including dementia due to HIV disease, head trauma, Parkinson's disease, Huntington's disease, Pick's disease, Creutzfeldt-Jakob disease, or due to multiple aetiologies;

movement disorders including akinesias, dyskinesias, including familial paroxysmal dyskinesias, spasticities, Tourette's syndrome, Scott syndrome,
30 PALSYS and akinetic-rigid syndrome;

extra-pyramidal movement disorders including medication-induced movement disorders, including neuroleptic-induced Parkinsonism, neuroleptic malignant syndrome, neuroleptic-induced acute dystonia, neuroleptic-induced acute akathisia, neuroleptic-induced tardive dyskinesia and medication-induced postural tremour;

5

Down's syndrome;

demyelinating diseases including multiple sclerosis and amyotrophic lateral sclerosis, peripheral neuropathy, including diabetic and chemotherapy-induced-neuropathy, or postherpetic neuralgia, trigeminal neuralgia, segmental or intercostal neuralgia and other neuralgias; and

10

cerebral vascular disorders due to acute or chronic cerebrovascular damage including cerebral infarction, subarachnoid haemorrhage or cerebral oedema;

15

the method comprising administering to the mammal in need of such treatment a therapeutically effective amount of a compound of Claim 1 or a pharmaceutically acceptable salt thereof.

20

10. A method of treating a disorder or condition in a mammal, including a human, the disorder or condition selected from sleep disorders, insomnia, drug-associated sleeplessness, REM sleep disorders, hypersomnia, narcolepsy, sleep-wake cycle disorders, sleep apnea syndromes, parasomnias, restless leg syndrome, jet lag, periodic limb movement disorder, altered sleep architecture, or sleep disorders associated with shift work and irregular work hours, the method comprising administering to the mammal in need of such treatment a therapeutically effective amount of a compound of Claim 1 or a pharmaceutically acceptable salt thereof.

25

11. A method of treating a disorder or condition in a mammal, including a human, the disorder or condition selected from:

mood disorders, including depression or depressive disorders, including single episodic or recurrent major depressive disorders, dysthymic disorders, depressive neurosis and neurotic depression, melancholic

30

- depression, including anorexia, weight loss, insomnia, early morning waking and psychomotor retardation, atypical depression or reactive depression, including increased appetite, hypersomnia, psychomotor agitation or irritability, seasonal affective disorder and pediatric depression;
- 5 bipolar disorders or manic depression, including bipolar I disorder, bipolar II disorder and cyclothymic disorder;
- conduct disorder and disruptive behavior disorder;
- anxiety disorders, including panic disorder with or without agoraphobia, agoraphobia without history of panic disorder, specific phobias, including
- 10 specific animal phobias, social anxiety, social phobia, obsessive-compulsive disorder, stress disorders, including post-traumatic stress disorder and acute stress disorder, and generalized anxiety disorders;
- borderline personality disorder;
- schizophrenia and other psychotic disorders, including
- 15 schizophreniform disorders, schizoaffective disorders, delusional disorders, brief psychotic disorders, shared psychotic disorders, psychotic disorders with delusions or hallucinations, psychotic episodes of anxiety, anxiety associated with psychosis, psychotic mood disorders including severe major depressive disorder;
- 20 mood disorders associated with psychotic disorders including acute mania and depression associated with bipolar disorder, mood disorders associated with schizophrenia; and
- behavioral disturbances associated with mental retardation, autistic disorder, and conduct disorder;
- 25 the method comprising administering to the mammal in need of such treatment a therapeutically effective amount of a compound of Claim 1 or a pharmaceutically acceptable salt thereof.

12. A compound selected from the following compounds and their pharmaceutically acceptable salts:

- 30 3-Amino-4,5-dimethyl-hexanoic acid;
- 3-Amino-4,5-dimethyl-heptanoic acid;

- 3-Amino-4,5-dimethyl-octanoic acid;
3-Amino-4,5-dimethyl-nonanoic acid;
3-Amino-4,5-dimethyl-decanoic acid;
3-Amino-4-ethyl-5-methyl-heptanoic acid;
5 3-Amino-4-ethyl-5-methyl-octanoic acid;
3-Amino-4-ethyl-5-methyl-nonanoic acid;
3-Amino-4-ethyl-5,6-dimethyl-heptanoic acid;
3-Amino-4-ethyl-5,7-dimethyl-octanoic acid;
3-Amino-4-ethyl-5,8-dimethyl-nonanoic acid;
10 3-Amino-5-ethyl-4-methyl-octanoic acid;
3-Amino-5-ethyl-4-methyl-nonanoic acid;
3-Amino-4,5-diethyl-heptanoic acid;
3-Amino-4,5-diethyl-octanoic acid;
3-Amino-4,5-diethyl-nonanoic acid;
15 3-Amino-5-ethyl-4,7-dimethyl-octanoic acid;
3-Amino-5-ethyl-4,8-dimethyl-nonanoic acid;
3-Amino-4,5-diethyl-6-methyl-heptanoic acid;
3-Amino-4,5-diethyl-7-methyl-octanoic acid;
3-Amino-4,5-diethyl-8-methyl-nonanoic acid;
20 3-Amino-4,5,6-trimethyl-heptanoic acid;
3-Amino-4,5,7-trimethyl-octanoic acid;
3-Amino-4,5,8-trimethyl-nonanoic acid;
3-Amino-4-ethyl-5-methyl-hexanoic acid;
3-Amino-5-ethyl-4-methyl-octanoic acid;
25 3-Amino-5-ethyl-4-methyl-heptanoic acid;
3-Amino-4-methyl-5-propyl-octanoic acid;
3-Amino-4-methyl-6-ethyl-octanoic acid;
3-Amino-4-methyl-6-ethyl-nonanoic acid;
3-Amino-4,6-diethyl-octanoic acid;
30 3-Amino-4,6-diethyl-nonanoic acid;
3-Amino-6-cyclopentyl-4,5-dimethyl-hexanoic acid;
3-Amino-7-cyclopentyl-4,5-dimethyl-heptanoic acid;

- 3-Amino-5-ethyl-4,6-dimethyl-heptanoic acid;
3-Amino-5-ethyl-4,7-dimethyl-octanoic acid;
3-Amino-5-ethyl-4,8-dimethyl-nonanoic acid;
(3R,4R)-3-Amino-4,5-dimethyl-hexanoic acid;
5 (3R,4R,5R)-3-Amino-4,5-dimethyl-heptanoic acid;
(3R,4R,5R)-3-Amino-4,5-dimethyl-octanoic acid;
(3R,4R,5R)-3-Amino-4,5-dimethyl-nonanoic acid;
(3R,4R,5R)-3-Amino-4,5-dimethyl-decanoic acid;
3-Amino-5-cyclopropyl-4-ethyl-hexanoic acid;
10 3-Amino-6-cyclopropyl-4-ethyl-5-methyl-hexanoic acid;
3-Amino-5-cyclobutyl-4-ethyl-hexanoic acid;
3-Amino-6-cyclobutyl-4-ethyl-5-methyl-hexanoic acid;
3-Amino-5-cyclopentyl-4-methyl-hexanoic acid;
3-Amino-6-cyclopentyl-4-ethyl-5-methyl-hexanoic acid;
15 3-Amino-5-cyclohexyl-4-ethyl-hexanoic acid;
3-Amino-6-cyclohexyl-4-ethyl-5-methyl-hexanoic acid;
3-Amino-5-cyclopropyl-4-methyl-hexanoic acid;
3-Amino-6-cyclopropyl-4,5-dimethyl-hexanoic acid;
3-Amino-5-cyclobutyl-4-methyl-hexanoic acid;
20 3-Amino-6-cyclobutyl-4,5-dimethyl-hexanoic acid;
3-Amino-5-cyclopentyl-4-methyl-hexanoic acid;
3-Amino-6-cyclopentyl-4,5-dimethyl-hexanoic acid;
3-Amino-5-cyclohexyl-4-methyl-hexanoic acid;
3-Amino-6-cyclohexyl-4,5-dimethyl-hexanoic acid;
25 3-Amino-8-cyclohexyl-4,5-dimethyl-octanoic acid;
3-Amino-8-cyclohexyl-4,5-dimethyl-octanoic acid;
3-Amino-4,6-dimethyl-heptanoic acid;
3-Amino-4,6-dimethyl-octanoic acid;
3-Amino-4,6-dimethyl-nonanoic acid;
30 3-Amino-4,6-dimethyl-decanoic acid;
3-Amino-4,6,7-trimethyl-octanoic acid;
3-Amino-4,6,8-trimethyl-nonanoic acid;

- 3-Amino-4,6,9-trimethyl-decanoic acid;
3-Amino-6-cyclopropyl-4-methyl-heptanoic acid;
3-Amino-6-cyclobutyl-4-methyl-heptanoic acid;
3-Amino-6-cyclopentyl-4-methyl-heptanoic acid;
5 3-Amino-6-cyclohexyl-4-methyl-heptanoic acid;
3-Amino-7-cyclopropyl-4,6-dimethyl-heptanoic acid;
3-Amino-7-cyclobutyl-4,6-dimethyl-heptanoic acid;
3-Amino-7-cyclopentyl-4,6-dimethyl-heptanoic acid;
3-Amino-7-cyclohexyl-4,6-dimethyl-heptanoic acid;
10 3-Amino-8-cyclopropyl-4,6-dimethyl-octanoic acid;
3-Amino-8-cyclobutyl-4,6-dimethyl-octanoic acid;
3-Amino-8-cyclopentyl-4,6-dimethyl-octanoic acid;
3-Amino-8-cyclohexyl-4,6-dimethyl-octanoic acid;
3-Amino-6-(3-chloro-phenyl)-4-methyl-heptanoic acid;
15 3-Amino-6-(3,4-dichloro-phenyl)-4-methyl-heptanoic acid;
3-Amino-4-methyl-6-(3-trifluoromethyl-phenyl)-heptanoic acid;
3-Amino-4-methyl-6-(4-trifluoromethyl-phenyl)-heptanoic acid;
3-Amino-7-(3-chloro-phenyl)-4,6-dimethyl-heptanoic acid;
3-Amino-7-(3,4-dichloro-phenyl)-4,6-dimethyl-heptanoic acid;
20 3-Amino-4,6-dimethyl-7-(3-trifluoromethyl-phenyl)-heptanoic acid;
3-Amino-4,6-dimethyl-7-(4-trifluoromethyl-phenyl)-heptanoic acid;
3-Amino-8-(3-chloro-phenyl)-4,6-dimethyl-octanoic acid;
3-Amino-8-(3,4-dichloro-phenyl)-4,6-dimethyl-octanoic acid;
3-Amino-4,6-dimethyl-8-(3-trifluoromethyl-phenyl)-octanoic acid;
25 3-Amino-4,6-dimethyl-8-(4-trifluoromethyl-phenyl)-octanoic acid;
3-Amino-4-ethyl-6-methyl-octanoic acid;
3-Amino-4-ethyl-6-methyl-nonanoic acid;
3-Amino-4-ethyl-6-methyl-decanoic acid;
3-Amino-4-ethyl-6,7-dimethyl-octanoic acid;
30 3-Amino-4-ethyl-6,8-dimethyl-nonanoic acid;
3-Amino-4-ethyl-6,9-dimethyl-decanoic acid;
3-Amino-6-cyclopropyl-4-ethyl-heptanoic acid;

- 3-Amino-6-cyclobutyl-4-ethyl-heptanoic acid;
3-Amino-6-cyclopentyl-4-ethyl-heptanoic acid;
3-Amino-6-cyclohexyl-4-ethyl-heptanoic acid;
3-Amino-7-cyclopropyl-4-ethyl-6-methyl-heptanoic acid;
5 3-Amino-7-cyclobutyl-4-ethyl-6-methyl-heptanoic acid;
3-Amino-7-cyclopentyl-4-ethyl-6-methyl-heptanoic acid;
3-Amino-7-cyclohexyl-4-ethyl-6-methyl-heptanoic acid;
3-Amino-8-cyclopropyl-4-ethyl-6-methyl-octanoic acid;
3-Amino-8-cyclobutyl-4-ethyl-6-methyl-octanoic acid;
10 3-Amino-8-cyclopentyl-4-ethyl-6-methyl-octanoic acid;
3-Amino-8-cyclohexyl-4-ethyl-6-methyl-octanoic acid;
3-Amino-6-(3-chloro-phenyl)-4-ethyl-heptanoic acid;
3-Amino-6-(3,4-dichloro-phenyl)-4-ethyl-heptanoic acid;
3-Amino-4-ethyl-6-(3-trifluoromethyl-phenyl)-heptanoic acid;
15 3-Amino-4-ethyl-6-(4-trifluoromethyl-phenyl)-heptanoic acid;
3-Amino-7-(3-chloro-phenyl)-4-ethyl-6-methyl-heptanoic acid;
3-Amino-7-(3,4-dichloro-phenyl)-4-ethyl-6-methyl-heptanoic acid;
3-Amino-4-ethyl-6-methyl-7-(3-trifluoromethyl-phenyl)-heptanoic acid;
3-Amino-4-ethyl-6-methyl-7-(4-trifluoromethyl-phenyl)-heptanoic acid;
20 3-Amino-8-(3-chloro-phenyl)-4-ethyl-6-methyl-octanoic acid;
3-Amino-8-(3,4-dichloro-phenyl)-4-ethyl-6-methyl-octanoic acid;
3-Amino-4-ethyl-6-methyl-8-(3-trifluoromethyl-phenyl)-octanoic acid;
3-Amino-4-ethyl-6-methyl-8-(4-trifluoromethyl-phenyl)-octanoic acid;
3-Amino-4-methyl-heptanoic acid;
25 3-Amino-4,6-dimethyl-heptanoic acid;
3-Amino-4,7-dimethyl-octanoic acid;
3-Amino-4,8-dimethyl-nonanoic acid;
3-Amino-4-methyl-hexanoic acid;
3-Amino-4-methyl-heptanoic acid;
30 3-Amino-4-methyl-octanoic acid;
3-Amino-4-methyl-nonanoic acid;
3-Amino-5-cyclopropyl-4-methyl-pentanoic acid;

- 3-Amino-6-cyclopropyl-4-methyl-hexanoic acid;
3-Amino-7-cyclopropyl-4-methyl-heptanoic acid;
3-Amino-5-cyclobutyl-4-methyl-pentanoic acid;
3-Amino-6-cyclobutyl-4-methyl-hexanoic acid;
5 3-Amino-7-cyclobutyl-4-methyl-heptanoic acid;
3-Amino-5-cyclopentyl-4-methyl-pentanoic acid;
3-Amino-6-cyclopentyl-4-methyl-hexanoic acid;
3-Amino-7-cyclopentyl-4-methyl-heptanoic acid;
3-Amino-5-cyclohexyl-4-methyl-pentanoic acid;
10 3-Amino-6-cyclohexyl-4-methyl-hexanoic acid;
3-Amino-7-cyclohexyl-4-methyl-heptanoic acid;
3-Amino-5-cyclopropyl-4-ethyl-pentanoic acid;
3-Amino-6-cyclopropyl-4-ethyl-hexanoic acid;
3-Amino-7-cyclopropyl-4-ethyl-heptanoic acid;
15 3-Amino-5-cyclobutyl-4-ethyl-pentanoic acid;
3-Amino-6-cyclobutyl-4-ethyl-hexanoic acid;
3-Amino-7-cyclobutyl-4-ethyl-heptanoic acid;
3-Amino-5-cyclopentyl-4-ethyl-pentanoic acid;
3-Amino-6-cyclopentyl-4-ethyl-hexanoic acid;
20 3-Amino-7-cyclopentyl-4-ethyl-heptanoic acid;
3-Amino-5-cyclohexyl-4-ethyl-pentanoic acid;
3-Amino-6-cyclohexyl-4-ethyl-hexanoic acid;
3-Amino-7-cyclohexyl-4-ethyl-heptanoic acid;
3-Amino-4,4,5-trimethyl-heptanoic acid;
25 3-Amino-4,4,5-trimethyl-octanoic acid;
3-Amino-4,4,5-trimethyl-hexanoic acid;
3-Amino-4,5,5-trimethyl-heptanoic acid;
3-Amino-4,5,5-trimethyl-octanoic acid;
3-Amino-4,5,5-trimethyl-hexanoic acid;
30 3-Amino-4-methyl-5-phenyl-pentanoic acid;
3-Amino-4-methyl-6-phenyl-hexanoic acid;
3-Amino-4-methyl-7-phenyl-heptanoic acid;

- 3-Amino-5-(2-chloro-phenyl)-4-methyl-pentanoic acid;
3-Amino-5-(3-chloro-phenyl)-4-methyl-pentanoic acid;
3-Amino-5-(4-chloro-phenyl)-4-methyl-pentanoic acid;
3-Amino-5-(2,4-dichloro-phenyl)-4-methyl-pentanoic acid;
5 3-Amino-5-(3,4-dichloro-phenyl)-4-methyl-pentanoic acid;
3-Amino-4-(2-chloro-benzyl)-hexanoic acid;
3-Amino-4-(3-chloro-benzyl)-hexanoic acid;
3-Amino-4-(4-chloro-benzyl)-hexanoic acid;
3-Amino-4-(2,4-dichloro-benzyl)-hexanoic acid;
10 3-Amino-4-(3,4-dichloro-benzyl)-hexanoic acid;
3-Amino-6-(2-chloro-phenyl)-4-methyl-hexanoic acid;
3-Amino-6-(3-chloro-phenyl)-4-methyl-hexanoic acid;
3-Amino-6-(4-chloro-phenyl)-4-methyl-hexanoic acid;
3-Amino-6-(2,4-dichloro-phenyl)-4-methyl-hexanoic acid;
15 3-Amino-6-(3,4-dichloro-phenyl)-4-methyl-hexanoic acid;
3-Amino-6-(2-chloro-phenyl)-4-ethyl-hexanoic acid;
3-Amino-6-(3-chloro-phenyl)-4-ethyl-hexanoic acid;
3-Amino-6-(4-chloro-phenyl)-4-ethyl-hexanoic acid;
3-Amino-6-(2,4-dichloro-phenyl)-4-ethyl-hexanoic acid;
20 3-Amino-6-(3,4-dichloro-phenyl)-4-ethyl-hexanoic acid;
3-Amino-7-(2-chloro-phenyl)-4-methyl-heptanoic acid;
3-Amino-7-(3-chloro-phenyl)-4-methyl-heptanoic acid;
3-Amino-7-(4-chloro-phenyl)-4-methyl-heptanoic acid;
3-Amino-7-(2,4-dichloro-phenyl)-4-methyl-heptanoic acid;
25 3-Amino-7-(3,4-dichloro-phenyl)-4-methyl-heptanoic acid;
3-Amino-7-(2-chloro-phenyl)-4-ethyl-heptanoic acid;
3-Amino-7-(3-chloro-phenyl)-4-ethyl-heptanoic acid;
3-Amino-7-(4-chloro-phenyl)-4-ethyl-heptanoic acid;
3-Amino-7-(2,4-dichloro-phenyl)-4-ethyl-heptanoic acid; and
30 3-Amino-7-(3,4-dichloro-phenyl)-4-ethyl-heptanoic acid.
2-Aminomethyl-4-(2-fluoro-phenyl)-pentanoic acid;
2-Aminomethyl-4-(3-fluoro-phenyl)-pentanoic acid;

- 2-Aminomethyl-4-(4-fluoro-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2,3-difluoro-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2,4-difluoro-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2,5-difluoro-phenyl)-pentanoic acid;
5 2-Aminomethyl-4-(2,6-difluoro-phenyl)-pentanoic acid;
2-Aminomethyl-4-(3,4-difluoro-phenyl)-pentanoic acid;
2-Aminomethyl-4-(3,5-difluoro-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2,3,4-trifluoro-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2,3,5-trifluoro-phenyl)-pentanoic acid;
10 2-Aminomethyl-4-(2,3,6-trifluoro-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2,4,6-trifluoro-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2,3,4,5-tetrafluoro-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2,3,4,6-tetrafluoro-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2,3,5,6-tetrafluoro-phenyl)-pentanoic acid;
15 2-Aminomethyl-4-pentafluorophenyl-pentanoic acid;
2-Aminomethyl-4-(2-fluoro-phenyl)-hexanoic acid;
2-Aminomethyl-4-(3-fluoro-phenyl)-hexanoic acid;
2-Aminomethyl-4-(4-fluoro-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,3-difluoro-phenyl)-hexanoic acid;
20 2-Aminomethyl-4-(2,4-difluoro-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,5-difluoro-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,6-difluoro-phenyl)-hexanoic acid;
2-Aminomethyl-4-(3,4-difluoro-phenyl)-hexanoic acid;
2-Aminomethyl-4-(3,5-difluoro-phenyl)-hexanoic acid;
25 2-Aminomethyl-4-(2,3,4-trifluoro-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,3,5-trifluoro-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,3,6-trifluoro-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,4,6-trifluoro-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,3,4,5-tetrafluoro-phenyl)-hexanoic acid;
30 2-Aminomethyl-4-(2,3,4,6-tetrafluoro-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,3,5,6-tetrafluoro-phenyl)-hexanoic acid;
2-Aminomethyl-4-pentafluorophenyl-hexanoic acid;

- 2-Aminomethyl-5-(2-fluoro-phenyl)-4-methyl-pentanoic acid;
2-Aminomethyl-5-(3-fluoro-phenyl)-4-methyl-pentanoic acid;
2-Aminomethyl-5-(4-fluoro-phenyl)-4-methyl-pentanoic acid;
2-Aminomethyl-5-(2,3-difluoro-phenyl)-4-methyl-pentanoic acid;
5 2-Aminomethyl-5-(2,4-difluoro-phenyl)-4-methyl-pentanoic acid;
2-Aminomethyl-5-(2,5-difluoro-phenyl)-4-methyl-pentanoic acid;
2-Aminomethyl-5-(2,6-difluoro-phenyl)-4-methyl-pentanoic acid;
2-Aminomethyl-5-(3,4-difluoro-phenyl)-4-methyl-pentanoic acid;
2-Aminomethyl-5-(3,5-difluoro-phenyl)-4-methyl-pentanoic acid;
10 2-Aminomethyl-4-methyl-5-(2,3,4-trifluoro-phenyl)-pentanoic acid;
2-Aminomethyl-4-methyl-5-(2,3,5-trifluoro-phenyl)-pentanoic acid;
2-Aminomethyl-4-methyl-5-(2,3,6-trifluoro-phenyl)-pentanoic acid;
2-Aminomethyl-4-methyl-5-(2,4,6-trifluoro-phenyl)-pentanoic acid;
2-Aminomethyl-4-methyl-5-(2,3,4,5-tetrafluoro-phenyl)-pentanoic acid;
15 2-Aminomethyl-4-methyl-5-(2,3,4,6-tetrafluoro-phenyl)-pentanoic acid;
2-Aminomethyl-4-methyl-5-(2,3,5,6-tetrafluoro-phenyl)-pentanoic acid;
2-Aminomethyl-4-methyl-5-pentafluorophenyl-pentanoic acid;
2-Aminomethyl-5-(2-fluoro-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-5-(3-fluoro-phenyl)-4-methyl-hexanoic acid;
20 2-Aminomethyl-5-(4-fluoro-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-5-(2,3-difluoro-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-5-(2,4-difluoro-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-5-(2,5-difluoro-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-5-(2,6-difluoro-phenyl)-4-methyl-hexanoic acid;
25 2-Aminomethyl-5-(3,4-difluoro-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-5-(3,5-difluoro-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-4-methyl-5-(2,3,4-trifluoro-phenyl)-hexanoic acid;
2-Aminomethyl-4-methyl-5-(2,3,5-trifluoro-phenyl)-hexanoic acid;
2-Aminomethyl-4-methyl-5-(2,3,6-trifluoro-phenyl)-hexanoic acid;
30 2-Aminomethyl-4-methyl-5-(2,4,6-trifluoro-phenyl)-hexanoic acid;
2-Aminomethyl-4-methyl-5-(2,3,4,5-tetrafluoro-phenyl)-hexanoic acid;
2-Aminomethyl-4-methyl-5-(2,3,4,6-tetrafluoro-phenyl)-hexanoic acid;

- 2-Aminomethyl-4-methyl-5-(2,3,5,6-tetrafluoro-phenyl)-hexanoic acid;
2-Aminomethyl-4-methyl-5-pentafluorophenyl-hexanoic acid;
2-Aminomethyl-6-(2-fluoro-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-6-(3-fluoro-phenyl)-4-methyl-hexanoic acid;
5 2-Aminomethyl-6-(4-fluoro-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-6-(2,3-difluoro-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-6-(2,4-difluoro-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-6-(2,5-difluoro-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-6-(2,6-difluoro-phenyl)-4-methyl-hexanoic acid;
10 2-Aminomethyl-6-(3,4-difluoro-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-6-(3,5-difluoro-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-4-methyl-6-(2,3,4-trifluoro-phenyl)-hexanoic acid;
2-Aminomethyl-4-methyl-6-(2,3,5-trifluoro-phenyl)-hexanoic acid;
2-Aminomethyl-4-methyl-6-(2,3,6-trifluoro-phenyl)-hexanoic acid;
15 2-Aminomethyl-4-methyl-6-(2,4,6-trifluoro-phenyl)-hexanoic acid;
2-Aminomethyl-4-methyl-6-(2,3,4,5-tetrafluoro-phenyl)-hexanoic acid;
2-Aminomethyl-4-methyl-6-(2,3,4,6-tetrafluoro-phenyl)-hexanoic acid;
2-Aminomethyl-4-methyl-6-(2,3,5,6-tetrafluoro-phenyl)-hexanoic acid;
2-Aminomethyl-4-methyl-6-pentafluorophenyl-hexanoic acid;
20 2-Aminomethyl-5-(2-fluoro-phenyl)-4-ethyl-pentanoic acid;
2-Aminomethyl-5-(3-fluoro-phenyl)-4-ethyl-pentanoic acid;
2-Aminomethyl-5-(4-fluoro-phenyl)-4-ethyl-pentanoic acid;
2-Aminomethyl-5-(2,3-difluoro-phenyl)-4-ethyl-pentanoic acid;
2-Aminomethyl-5-(2,4-difluoro-phenyl)-4-ethyl-pentanoic acid;
25 2-Aminomethyl-5-(2,5-difluoro-phenyl)-4-ethyl-pentanoic acid;
2-Aminomethyl-5-(2,6-difluoro-phenyl)-4-ethyl-pentanoic acid;
2-Aminomethyl-5-(3,4-difluoro-phenyl)-4-ethyl-pentanoic acid;
2-Aminomethyl-5-(3,5-difluoro-phenyl)-4-ethyl-pentanoic acid;
2-Aminomethyl-4-ethyl-5-(2,3,4-trifluoro-phenyl)-pentanoic acid;
30 2-Aminomethyl-4-ethyl-5-(2,3,5-trifluoro-phenyl)-pentanoic acid;
2-Aminomethyl-4-ethyl-5-(2,3,6-trifluoro-phenyl)-pentanoic acid;
2-Aminomethyl-4-ethyl-5-(2,4,6-trifluoro-phenyl)-pentanoic acid;

- 2-Aminomethyl-4-ethyl-5-(2,3,4,5-tetrafluoro-phenyl)-pentanoic acid;
2-Aminomethyl-4-ethyl-5-(2,3,4,6-tetrafluoro-phenyl)-pentanoic acid;
2-Aminomethyl-4-ethyl-5-(2,3,5,6-tetrafluoro-phenyl)-pentanoic acid;
2-Aminomethyl-4-ethyl-5-pentafluorophenyl-pentanoic acid;
5 2-Aminomethyl-6-(2-fluoro-phenyl)-4-ethyl-hexanoic acid;
2-Aminomethyl-6-(3-fluoro-phenyl)-4-ethyl-hexanoic acid;
2-Aminomethyl-6-(4-fluoro-phenyl)-4-ethyl-hexanoic acid;
2-Aminomethyl-6-(2,3-difluoro-phenyl)-4-ethyl-hexanoic acid;
2-Aminomethyl-6-(2,4-difluoro-phenyl)-4-ethyl-hexanoic acid;
10 2-Aminomethyl-6-(2,5-difluoro-phenyl)-4-ethyl-hexanoic acid;
2-Aminomethyl-6-(2,6-difluoro-phenyl)-4-ethyl-hexanoic acid;
2-Aminomethyl-6-(3,4-difluoro-phenyl)-4-ethyl-hexanoic acid;
2-Aminomethyl-6-(3,5-difluoro-phenyl)-4-ethyl-hexanoic acid;
2-Aminomethyl-4-ethyl-6-(2,3,4-trifluoro-phenyl)-hexanoic acid;
15 2-Aminomethyl-4-ethyl-6-(2,3,5-trifluoro-phenyl)-hexanoic acid;
2-Aminomethyl-4-ethyl-6-(2,3,6-trifluoro-phenyl)-hexanoic acid;
2-Aminomethyl-4-ethyl-6-(2,4,6-trifluoro-phenyl)-hexanoic acid;
2-Aminomethyl-4-ethyl-6-(2,3,4,5-tetrafluoro-phenyl)-hexanoic acid;
2-Aminomethyl-4-ethyl-6-(2,3,4,6-tetrafluoro-phenyl)-hexanoic acid;
20 2-Aminomethyl-4-ethyl-6-(2,3,5,6-tetrafluoro-phenyl)-hexanoic acid;
2-Aminomethyl-4-ethyl-6-pentafluorophenyl-hexanoic acid;
2-Aminomethyl-7-(2-fluoro-phenyl)-4-methyl-heptanoic acid;
2-Aminomethyl-7-(3-fluoro-phenyl)-4-methyl-heptanoic acid;
2-Aminomethyl-7-(4-fluoro-phenyl)-4-methyl-heptanoic acid;
25 2-Aminomethyl-7-(2,3-difluoro-phenyl)-4-methyl-heptanoic acid;
2-Aminomethyl-7-(2,4-difluoro-phenyl)-4-methyl-heptanoic acid;
2-Aminomethyl-7-(2,5-difluoro-phenyl)-4-methyl-heptanoic acid;
2-Aminomethyl-7-(2,6-difluoro-phenyl)-4-methyl-heptanoic acid;
2-Aminomethyl-7-(3,4-difluoro-phenyl)-4-methyl-heptanoic acid;
30 2-Aminomethyl-7-(3,5-difluoro-phenyl)-4-methyl-heptanoic acid;
2-Aminomethyl-4-methyl-7-(2,3,4-trifluoro-phenyl)-heptanoic acid;
2-Aminomethyl-4-methyl-7-(2,3,5-trifluoro-phenyl)-heptanoic acid;

- 2-Aminomethyl-4-methyl-7-(2,3,6-trifluoro-phenyl)-heptanoic acid;
2-Aminomethyl-4-methyl-7-(2,4,6-trifluoro-phenyl)-heptanoic acid;
2-Aminomethyl-4-methyl-7-(2,3,4,5-tetrafluoro-phenyl)-heptanoic acid;
2-Aminomethyl-4-methyl-7-(2,3,4,6-tetrafluoro-phenyl)-heptanoic acid;
5 2-Aminomethyl-4-methyl-7-(2,3,5,6-tetrafluoro-phenyl)-heptanoic acid;
2-Aminomethyl-4-methyl-7-pentafluorophenyl-heptanoic acid;
2-Aminomethyl-7-(2-fluoro-phenyl)-4-ethyl-heptanoic acid;
2-Aminomethyl-7-(3-fluoro-phenyl)-4-ethyl-heptanoic acid;
2-Aminomethyl-7-(4-fluoro-phenyl)-4-ethyl-heptanoic acid;
10 2-Aminomethyl-7-(2,3-difluoro-phenyl)-4-ethyl-heptanoic acid;
2-Aminomethyl-7-(2,4-difluoro-phenyl)-4-ethyl-heptanoic acid;
2-Aminomethyl-7-(2,5-difluoro-phenyl)-4-ethyl-heptanoic acid;
2-Aminomethyl-7-(2,6-difluoro-phenyl)-4-ethyl-heptanoic acid;
2-Aminomethyl-7-(3,4-difluoro-phenyl)-4-ethyl-heptanoic acid;
15 2-Aminomethyl-7-(3,5-difluoro-phenyl)-4-ethyl-heptanoic acid;
2-Aminomethyl-4-ethyl-7-(2,3,4-trifluoro-phenyl)-heptanoic acid;
2-Aminomethyl-4-ethyl-7-(2,3,5-trifluoro-phenyl)-heptanoic acid;
2-Aminomethyl-4-ethyl-7-(2,3,6-trifluoro-phenyl)-heptanoic acid;
2-Aminomethyl-4-ethyl-7-(2,4,6-trifluoro-phenyl)-heptanoic acid;
20 2-Aminomethyl-4-ethyl-7-(2,3,4,5-tetrafluoro-phenyl)-heptanoic acid;
2-Aminomethyl-4-ethyl-7-(2,3,4,6-tetrafluoro-phenyl)-heptanoic acid;
2-Aminomethyl-4-ethyl-7-(2,3,5,6-tetrafluoro-phenyl)-heptanoic acid;
2-Aminomethyl-4-ethyl-7-pentafluorophenyl-heptanoic acid;
2-Aminomethyl-4-(2-chloro-phenyl)-pentanoic acid;
25 2-Aminomethyl-4-(3-chloro-phenyl)-pentanoic acid;
2-Aminomethyl-4-(4-chloro-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2,3-dichloro-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2,4-dichloro-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2,5-dichloro-phenyl)-pentanoic acid;
30 2-Aminomethyl-4-(2,6-dichloro-phenyl)-pentanoic acid;
2-Aminomethyl-4-(3,4-dichloro-phenyl)-pentanoic acid;
2-Aminomethyl-4-(3,5-dichloro-phenyl)-pentanoic acid;

- 2-Aminomethyl-4-(2,3,4-trichloro-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2,3,5-trichloro-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2,3,6-trichloro-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2,4,6-trichloro-phenyl)-pentanoic acid;
5 2-Aminomethyl-4-(2,3,4,5-tetrachloro-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2,3,4,6-tetrachloro-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2,3,5,6-tetrachloro-phenyl)-pentanoic acid;
2-Aminomethyl-4-pentachlorophenyl-pentanoic acid;
2-Aminomethyl-4-(2-chloro-phenyl)-hexanoic acid;
10 2-Aminomethyl-4-(3-chloro-phenyl)-hexanoic acid;
2-Aminomethyl-4-(4-chloro-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,3-dichloro-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,4-dichloro-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,5-dichloro-phenyl)-hexanoic acid;
15 2-Aminomethyl-4-(2,6-dichloro-phenyl)-hexanoic acid;
2-Aminomethyl-4-(3,4-dichloro-phenyl)-hexanoic acid;
2-Aminomethyl-4-(3,5-dichloro-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,3,4-trichloro-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,3,5-trichloro-phenyl)-hexanoic acid;
20 2-Aminomethyl-4-(2,3,6-trichloro-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,4,6-trichloro-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,3,4,5-tetrachloro-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,3,4,6-tetrachloro-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,3,5,6-tetrachloro-phenyl)-hexanoic acid;
25 2-Aminomethyl-4-pentachlorophenyl-hexanoic acid;
2-Aminomethyl-5-(2-chloro-phenyl)-4-methyl-pentanoic acid;
2-Aminomethyl-5-(3-chloro-phenyl)-4-methyl-pentanoic acid;
2-Aminomethyl-5-(4-chloro-phenyl)-4-methyl-pentanoic acid;
2-Aminomethyl-5-(2,3-dichloro-phenyl)-4-methyl-pentanoic acid;
30 2-Aminomethyl-5-(2,4-dichloro-phenyl)-4-methyl-pentanoic acid;
2-Aminomethyl-5-(2,5-dichloro-phenyl)-4-methyl-pentanoic acid;
2-Aminomethyl-5-(2,6-dichloro-phenyl)-4-methyl-pentanoic acid;

- 2-Aminomethyl-5-(3,4-dichloro-phenyl)-4-methyl-pentanoic acid;
2-Aminomethyl-5-(3,5-dichloro-phenyl)-4-methyl-pentanoic acid;
2-Aminomethyl-4-methyl-5-(2,3,4-trichloro-phenyl)-pentanoic acid;
2-Aminomethyl-4-methyl-5-(2,3,5-trichloro-phenyl)-pentanoic acid;
5 2-Aminomethyl-4-methyl-5-(2,3,6-trichloro-phenyl)-pentanoic acid;
2-Aminomethyl-4-methyl-5-(2,4,6-trichloro-phenyl)-pentanoic acid;
2-Aminomethyl-4-methyl-5-(2,3,4,5-tetrachloro-phenyl)-pentanoic acid;
2-Aminomethyl-4-methyl-5-(2,3,4,6-tetrachloro-phenyl)-pentanoic acid;
2-Aminomethyl-4-methyl-5-(2,3,5,6-tetrachloro-phenyl)-pentanoic acid;
10 2-Aminomethyl-4-methyl-5-pentachlorophenyl-pentanoic acid;
2-Aminomethyl-5-(2-chloro-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-5-(3-chloro-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-5-(4-chloro-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-5-(2,3-dichloro-phenyl)-4-methyl-hexanoic acid;
15 2-Aminomethyl-5-(2,4-dichloro-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-5-(2,5-dichloro-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-5-(2,6-dichloro-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-5-(3,4-dichloro-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-5-(3,5-dichloro-phenyl)-4-methyl-hexanoic acid;
20 2-Aminomethyl-4-methyl-5-(2,3,4-trichloro-phenyl)-hexanoic acid;
2-Aminomethyl-4-methyl-5-(2,3,5-trichloro-phenyl)-hexanoic acid;
2-Aminomethyl-4-methyl-5-(2,3,6-trichloro-phenyl)-hexanoic acid;
2-Aminomethyl-4-methyl-5-(2,4,6-trichloro-phenyl)-hexanoic acid;
2-Aminomethyl-4-methyl-5-(2,3,4,5-tetrachloro-phenyl)-hexanoic acid;
25 2-Aminomethyl-4-methyl-5-(2,3,4,6-tetrachloro-phenyl)-hexanoic acid;
2-Aminomethyl-4-methyl-5-(2,3,5,6-tetrachloro-phenyl)-hexanoic acid;
2-Aminomethyl-4-methyl-5-pentachlorophenyl-hexanoic acid;
2-Aminomethyl-5-(2-chloro-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-5-(3-chloro-phenyl)-4-methyl-hexanoic acid;
30 2-Aminomethyl-5-(4-chloro-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-5-(2,3-dichloro-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-5-(2,4-dichloro-phenyl)-4-methyl-hexanoic acid;

- 2-Aminomethyl-5-(2,5-dichloro-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-5-(2,6-dichloro-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-5-(3,4-dichloro-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-5-(3,5-dichloro-phenyl)-4-methyl-hexanoic acid;
5 2-Aminomethyl-4-methyl-5-(2,3,4-trichloro-phenyl)-hexanoic acid;
2-Aminomethyl-4-methyl-5-(2,3,5-trichloro-phenyl)-hexanoic acid;
2-Aminomethyl-4-methyl-5-(2,3,6-trichloro-phenyl)-hexanoic acid;
2-Aminomethyl-4-methyl-5-(2,4,6-trichloro-phenyl)-hexanoic acid;
2-Aminomethyl-4-methyl-5-(2,3,4,5-tetrachloro-phenyl)-hexanoic acid;
10 2-Aminomethyl-4-methyl-5-(2,3,4,6-tetrachloro-phenyl)-hexanoic acid;
2-Aminomethyl-4-methyl-5-(2,3,5,6-tetrachloro-phenyl)-hexanoic acid;
2-Aminomethyl-4-methyl-5-pentachlorophenyl-hexanoic acid;
2-Aminomethyl-5-(2-chloro-phenyl)-4-ethyl-pentanoic acid;
2-Aminomethyl-5-(3-chloro-phenyl)-4-ethyl-pentanoic acid;
15 2-Aminomethyl-5-(4-chloro-phenyl)-4-ethyl-pentanoic acid;
2-Aminomethyl-5-(2,3-dichloro-phenyl)-4-ethyl-pentanoic acid;
2-Aminomethyl-5-(2,4-dichloro-phenyl)-4-ethyl-pentanoic acid;
2-Aminomethyl-5-(2,5-dichloro-phenyl)-4-ethyl-pentanoic acid;
2-Aminomethyl-5-(2,6-dichloro-phenyl)-4-ethyl-pentanoic acid;
20 2-Aminomethyl-5-(3,4-dichloro-phenyl)-4-ethyl-pentanoic acid;
2-Aminomethyl-5-(3,5-dichloro-phenyl)-4-ethyl-pentanoic acid;
2-Aminomethyl-4-ethyl-5-(2,3,4-trichloro-phenyl)-pentanoic acid;
2-Aminomethyl-4-ethyl-5-(2,3,5-trichloro-phenyl)-pentanoic acid;
2-Aminomethyl-4-ethyl-5-(2,3,6-trichloro-phenyl)-pentanoic acid;
25 2-Aminomethyl-4-ethyl-5-(2,4,6-trichloro-phenyl)-pentanoic acid;
2-Aminomethyl-4-ethyl-5-(2,3,4,5-tetrachloro-phenyl)-pentanoic acid;
2-Aminomethyl-4-ethyl-5-(2,3,4,6-tetrachloro-phenyl)-pentanoic acid;
2-Aminomethyl-4-ethyl-5-(2,3,5,6-tetrachloro-phenyl)-pentanoic acid;
2-Aminomethyl-4-ethyl-5-pentachlorophenyl-pentanoic acid;
30 2-Aminomethyl-6-(2-chloro-phenyl)-4-ethyl-hexanoic acid;
2-Aminomethyl-6-(3-chloro-phenyl)-4-ethyl-hexanoic acid;
2-Aminomethyl-6-(4-chloro-phenyl)-4-ethyl-hexanoic acid;

- 2-Aminomethyl-6-(2,3-dichloro-phenyl)-4-ethyl-hexanoic acid;
2-Aminomethyl-6-(2,4-dichloro-phenyl)-4-ethyl-hexanoic acid;
2-Aminomethyl-6-(2,5-dichloro-phenyl)-4-ethyl-hexanoic acid;
2-Aminomethyl-6-(2,6-dichloro-phenyl)-4-ethyl-hexanoic acid;
5 2-Aminomethyl-6-(3,4-dichloro-phenyl)-4-ethyl-hexanoic acid;
2-Aminomethyl-6-(3,5-dichloro-phenyl)-4-ethyl-hexanoic acid;
2-Aminomethyl-4-ethyl-6-(2,3,4-trichloro-phenyl)-hexanoic acid;
2-Aminomethyl-4-ethyl-6-(2,3,5-trichloro-phenyl)-hexanoic acid;
2-Aminomethyl-4-ethyl-6-(2,3,6-trichloro-phenyl)-hexanoic acid;
10 2-Aminomethyl-4-ethyl-6-(2,4,6-trichloro-phenyl)-hexanoic acid;
2-Aminomethyl-4-ethyl-6-(2,3,4,5-tetrachloro-phenyl)-hexanoic acid;
2-Aminomethyl-4-ethyl-6-(2,3,4,6-tetrachloro-phenyl)-hexanoic acid;
2-Aminomethyl-4-ethyl-6-(2,3,5,6-tetrachloro-phenyl)-hexanoic acid;
2-Aminomethyl-4-ethyl-6-pentachlorophenyl-hexanoic acid;
15 2-Aminomethyl-7-(2-chloro-phenyl)-4-methyl-heptanoic acid;
2-Aminomethyl-7-(3-chloro-phenyl)-4-methyl-heptanoic acid;
2-Aminomethyl-7-(4-chloro-phenyl)-4-methyl-heptanoic acid;
2-Aminomethyl-7-(2,3-dichloro-phenyl)-4-methyl-heptanoic acid;
2-Aminomethyl-7-(2,4-dichloro-phenyl)-4-methyl-heptanoic acid;
20 2-Aminomethyl-7-(2,5-dichloro-phenyl)-4-methyl-heptanoic acid;
2-Aminomethyl-7-(2,6-dichloro-phenyl)-4-methyl-heptanoic acid;
2-Aminomethyl-7-(3,4-dichloro-phenyl)-4-methyl-heptanoic acid;
2-Aminomethyl-7-(3,5-dichloro-phenyl)-4-methyl-heptanoic acid;
2-Aminomethyl-4-methyl-7-(2,3,4-trichloro-phenyl)-heptanoic acid;
25 2-Aminomethyl-4-methyl-7-(2,3,5-trichloro-phenyl)-heptanoic acid;
2-Aminomethyl-4-methyl-7-(2,3,6-trichloro-phenyl)-heptanoic acid;
2-Aminomethyl-4-methyl-7-(2,4,6-trichloro-phenyl)-heptanoic acid;
2-Aminomethyl-4-methyl-7-(2,3,4,5-tetrachloro-phenyl)-heptanoic acid;
2-Aminomethyl-4-methyl-7-(2,3,4,6-tetrachloro-phenyl)-heptanoic acid;
30 2-Aminomethyl-4-methyl-7-(2,3,5,6-tetrachloro-phenyl)-heptanoic acid;
2-Aminomethyl-4-methyl-7-pentachlorophenyl-heptanoic acid;
2-Aminomethyl-7-(2-chloro-phenyl)-4-ethyl-heptanoic acid;

- 2-Aminomethyl-7-(3-chloro-phenyl)-4-ethyl-heptanoic acid;
2-Aminomethyl-7-(4-chloro-phenyl)-4-ethyl-heptanoic acid;
2-Aminomethyl-7-(2,3-dichloro-phenyl)-4-ethyl-heptanoic acid;
2-Aminomethyl-7-(2,4-dichloro-phenyl)-4-ethyl-heptanoic acid;
5 2-Aminomethyl-7-(2,5-dichloro-phenyl)-4-ethyl-heptanoic acid;
2-Aminomethyl-7-(2,6-dichloro-phenyl)-4-ethyl-heptanoic acid;
2-Aminomethyl-7-(3,4-dichloro-phenyl)-4-ethyl-heptanoic acid;
2-Aminomethyl-7-(3,5-dichloro-phenyl)-4-ethyl-heptanoic acid;
2-Aminomethyl-4-ethyl-7-(2,3,4-trichloro-phenyl)-heptanoic acid;
10 2-Aminomethyl-4-ethyl-7-(2,3,5-trichloro-phenyl)-heptanoic acid;
2-Aminomethyl-4-ethyl-7-(2,3,6-trichloro-phenyl)-heptanoic acid;
2-Aminomethyl-4-ethyl-7-(2,4,6-trichloro-phenyl)-heptanoic acid;
2-Aminomethyl-4-ethyl-7-(2,3,4,5-tetrachloro-phenyl)-heptanoic acid;
2-Aminomethyl-4-ethyl-7-(2,3,4,6-tetrachloro-phenyl)-heptanoic acid;
15 2-Aminomethyl-4-ethyl-7-(2,3,5,6-tetrachloro-phenyl)-heptanoic acid;
2-Aminomethyl-4-ethyl-7-pentachlorophenyl-heptanoic acid;
2-Aminomethyl-4-(2-methoxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-(3-methoxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-(4-methoxy-phenyl)-pentanoic acid;
20 2-Aminomethyl-4-(2,3-dimethoxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2,4-dimethoxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2,5-dimethoxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2,6-dimethoxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-(3,4-dimethoxy-phenyl)-pentanoic acid;
25 2-Aminomethyl-4-(3,5-dimethoxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2,3,4-trimethoxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2,3,5-trimethoxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2,3,6-trimethoxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2,4,6-trimethoxy-phenyl)-pentanoic acid;
30 2-Aminomethyl-4-(2-methoxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-(3-methoxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-(4-methoxy-phenyl)-hexanoic acid;

- 2-Aminomethyl-4-(2,3-dimethoxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,4-dimethoxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,5-dimethoxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,6-dimethoxy-phenyl)-hexanoic acid;
5 2-Aminomethyl-4-(3,4-dimethoxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-(3,5-dimethoxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,3,4-trimethoxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,3,5-trimethoxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,3,6-trimethoxy-phenyl)-hexanoic acid;
10 2-Aminomethyl-4-(2,4,6-trimethoxy-phenyl)-hexanoic acid;
2-Aminomethyl-5-(2-methoxy-phenyl)-4-methyl-pentanoic acid;
2-Aminomethyl-5-(3-methoxy-phenyl)-4-methyl-pentanoic acid;
2-Aminomethyl-5-(4-methoxy-phenyl)-4-methyl-pentanoic acid;
2-Aminomethyl-5-(2,3-dimethoxy-phenyl)-4-methyl-pentanoic acid;
15 2-Aminomethyl-5-(2,4-dimethoxy-phenyl)-4-methyl-pentanoic acid;
2-Aminomethyl-5-(2,5-dimethoxy-phenyl)-4-methyl-pentanoic acid;
2-Aminomethyl-5-(2,6-dimethoxy-phenyl)-4-methyl-pentanoic acid;
2-Aminomethyl-5-(3,4-dimethoxy-phenyl)-4-methyl-pentanoic acid;
2-Aminomethyl-5-(3,5-dimethoxy-phenyl)-4-methyl-pentanoic acid;
20 2-Aminomethyl-4-methyl-5-(2,3,4-trimethoxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-methyl-5-(2,3,5-trimethoxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-methyl-5-(2,3,6-trimethoxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-methyl-5-(2,4,6-trimethoxy-phenyl)-pentanoic acid;
2-Aminomethyl-5-(2-methoxy-phenyl)-4-methyl-hexanoic acid;
25 2-Aminomethyl-5-(3-methoxy-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-5-(4-methoxy-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-5-(2,3-dimethoxy-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-5-(2,4-dimethoxy-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-5-(2,5-dimethoxy-phenyl)-4-methyl-hexanoic acid;
30 2-Aminomethyl-5-(2,6-dimethoxy-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-5-(3,4-dimethoxy-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-5-(3,5-dimethoxy-phenyl)-4-methyl-hexanoic acid;

- 2-Aminomethyl-4-methyl-5-(2,3,4-trimethoxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-methyl-5-(2,3,5-trimethoxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-methyl-5-(2,3,6-trimethoxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-methyl-5-(2,4,6-trimethoxy-phenyl)-hexanoic acid;
5 2-Aminomethyl-6-(2-methoxy-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-6-(3-methoxy-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-6-(4-methoxy-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-6-(2,3-dimethoxy-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-6-(2,4-dimethoxy-phenyl)-4-methyl-hexanoic acid;
10 2-Aminomethyl-6-(2,5-dimethoxy-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-6-(2,6-dimethoxy-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-6-(3,4-dimethoxy-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-6-(3,5-dimethoxy-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-4-methyl-6-(2,3,4-trimethoxy-phenyl)-hexanoic acid;
15 2-Aminomethyl-4-methyl-6-(2,3,5-trimethoxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-methyl-6-(2,3,6-trimethoxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-methyl-6-(2,4,6-trimethoxy-phenyl)-hexanoic acid;
2-Aminomethyl-5-(2-methoxy-phenyl)-4-ethyl-pentanoic acid;
2-Aminomethyl-5-(3-methoxy-phenyl)-4-ethyl-pentanoic acid;
20 2-Aminomethyl-5-(4-methoxy-phenyl)-4-ethyl-pentanoic acid;
2-Aminomethyl-5-(2,3-dimethoxy-phenyl)-4-ethyl-pentanoic acid;
2-Aminomethyl-5-(2,4-dimethoxy-phenyl)-4-ethyl-pentanoic acid;
2-Aminomethyl-5-(2,5-dimethoxy-phenyl)-4-ethyl-pentanoic acid;
2-Aminomethyl-5-(2,6-dimethoxy-phenyl)-4-ethyl-pentanoic acid;
25 2-Aminomethyl-5-(3,4-dimethoxy-phenyl)-4-ethyl-pentanoic acid;
2-Aminomethyl-5-(3,5-dimethoxy-phenyl)-4-ethyl-pentanoic acid;
2-Aminomethyl-4-ethyl-5-(2,3,4-trimethoxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-ethyl-5-(2,3,5-trimethoxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-ethyl-5-(2,3,6-trimethoxy-phenyl)-pentanoic acid;
30 2-Aminomethyl-4-ethyl-5-(2,4,6-trimethoxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-ethyl-5-(2,3,4,5-tetramethoxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-ethyl-5-(2,3,4,6-tetramethoxy-phenyl)-pentanoic acid;

- 2-Aminomethyl-4-ethyl-5-(2,3,5,6-tetramethoxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-ethyl-5-pentamethoxyphenyl-pentanoic acid;
2-Aminomethyl-6-(2-methoxy-phenyl)-4-ethyl-hexanoic acid;
2-Aminomethyl-6-(3-methoxy-phenyl)-4-ethyl-hexanoic acid;
5 2-Aminomethyl-6-(4-methoxy-phenyl)-4-ethyl-hexanoic acid;
2-Aminomethyl-6-(2,3-dimethoxy-phenyl)-4-ethyl-hexanoic acid;
2-Aminomethyl-6-(2,4-dimethoxy-phenyl)-4-ethyl-hexanoic acid;
2-Aminomethyl-6-(2,5-dimethoxy-phenyl)-4-ethyl-hexanoic acid;
2-Aminomethyl-6-(2,6-dimethoxy-phenyl)-4-ethyl-hexanoic acid;
10 2-Aminomethyl-6-(3,4-dimethoxy-phenyl)-4-ethyl-hexanoic acid;
2-Aminomethyl-6-(3,5-dimethoxy-phenyl)-4-ethyl-hexanoic acid;
2-Aminomethyl-4-ethyl-6-(2,3,4-trimethoxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-ethyl-6-(2,3,5-trimethoxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-ethyl-6-(2,3,6-trimethoxy-phenyl)-hexanoic acid;
15 2-Aminomethyl-4-ethyl-6-(2,4,6-trimethoxy-phenyl)-hexanoic acid;
2-Aminomethyl-7-(2-methoxy-phenyl)-4-methyl-heptanoic acid;
2-Aminomethyl-7-(3-methoxy-phenyl)-4-methyl-heptanoic acid;
2-Aminomethyl-7-(4-methoxy-phenyl)-4-methyl-heptanoic acid;
2-Aminomethyl-7-(2,3-dimethoxy-phenyl)-4-methyl-heptanoic acid;
20 2-Aminomethyl-7-(2,4-dimethoxy-phenyl)-4-methyl-heptanoic acid;
2-Aminomethyl-7-(2,5-dimethoxy-phenyl)-4-methyl-heptanoic acid;
2-Aminomethyl-7-(2,6-dimethoxy-phenyl)-4-methyl-heptanoic acid;
2-Aminomethyl-7-(3,4-dimethoxy-phenyl)-4-methyl-heptanoic acid;
2-Aminomethyl-7-(3,5-dimethoxy-phenyl)-4-methyl-heptanoic acid;
25 2-Aminomethyl-4-methyl-7-(2,3,4-trimethoxy-phenyl)-heptanoic acid;
2-Aminomethyl-4-methyl-7-(2,3,5-trimethoxy-phenyl)-heptanoic acid;
2-Aminomethyl-4-methyl-7-(2,3,6-trimethoxy-phenyl)-heptanoic acid;
2-Aminomethyl-4-methyl-7-(2,4,6-trimethoxy-phenyl)-heptanoic acid;
2-Aminomethyl-7-(2-methoxy-phenyl)-4-ethyl-heptanoic acid;
30 2-Aminomethyl-7-(3-methoxy-phenyl)-4-ethyl-heptanoic acid;
2-Aminomethyl-7-(4-methoxy-phenyl)-4-ethyl-heptanoic acid;
2-Aminomethyl-7-(2,3-dimethoxy-phenyl)-4-ethyl-heptanoic acid;

- 2-Aminomethyl-7-(2,4-dimethoxy-phenyl)-4-ethyl-heptanoic acid;
2-Aminomethyl-7-(2,5-dimethoxy-phenyl)-4-ethyl-heptanoic acid;
2-Aminomethyl-7-(2,6-dimethoxy-phenyl)-4-ethyl-heptanoic acid;
2-Aminomethyl-7-(3,4-dimethoxy-phenyl)-4-ethyl-heptanoic acid;
5 2-Aminomethyl-7-(3,5-dimethoxy-phenyl)-4-ethyl-heptanoic acid;
2-Aminomethyl-4-ethyl-7-(2,3,4-trimethoxy-phenyl)-heptanoic acid;
2-Aminomethyl-4-ethyl-7-(2,3,5-trimethoxy-phenyl)-heptanoic acid;
2-Aminomethyl-4-ethyl-7-(2,3,6-trimethoxy-phenyl)-heptanoic acid;
2-Aminomethyl-4-ethyl-7-(2,4,6-trimethoxy-phenyl)-heptanoic acid;
10 2-Aminomethyl-4-(2-trifluoromethyl-phenyl)-pentanoic acid;
2-Aminomethyl-4-(3-trifluoromethyl-phenyl)-pentanoic acid;
2-Aminomethyl-4-(4-trifluoromethyl-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2,3-di-trifluoromethyl-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2,4-di-trifluoromethyl-phenyl)-pentanoic acid;
15 2-Aminomethyl-4-(2,5-di-trifluoromethyl-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2,6-di-trifluoromethyl-phenyl)-pentanoic acid;
2-Aminomethyl-4-(3,4-di-trifluoromethyl-phenyl)-pentanoic acid;
2-Aminomethyl-4-(3,5-di-trifluoromethyl-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2,3,4-tri-trifluoromethyl-phenyl)-pentanoic acid;
20 2-Aminomethyl-4-(2,3,5-tri-trifluoromethyl-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2,3,6-tri-trifluoromethyl-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2,4,6-tri-trifluoromethyl-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2-trifluoromethyl-phenyl)-hexanoic acid;
2-Aminomethyl-4-(3-trifluoromethyl-phenyl)-hexanoic acid;
25 2-Aminomethyl-4-(4-trifluoromethyl-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,3-di-trifluoromethyl-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,4-di-trifluoromethyl-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,5-di-trifluoromethyl-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,6-di-trifluoromethyl-phenyl)-hexanoic acid;
30 2-Aminomethyl-4-(3,4-di-trifluoromethyl-phenyl)-hexanoic acid;
2-Aminomethyl-4-(3,5-di-trifluoromethyl-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,3,4-tri-trifluoromethyl-phenyl)-hexanoic acid;

- 2-Aminomethyl-4-(2,3,5-tri-trifluoromethyl-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,3,6-tri-trifluoromethyl-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,4,6-tri-trifluoromethyl-phenyl)-hexanoic acid;
2-Aminomethyl-5-(2-trifluoromethyl-phenyl)-4-methyl-pentanoic acid;
5 2-Aminomethyl-5-(3-trifluoromethyl-phenyl)-4-methyl-pentanoic acid;
2-Aminomethyl-5-(4-trifluoromethyl-phenyl)-4-methyl-pentanoic acid;
2-Aminomethyl-5-(2,3-di-trifluoromethyl-phenyl)-4-methyl-pentanoic
acid;
2-Aminomethyl-5-(2,4-di-trifluoromethyl-phenyl)-4-methyl-pentanoic
10 acid;
2-Aminomethyl-5-(2,5-di-trifluoromethyl-phenyl)-4-methyl-pentanoic
acid;
2-Aminomethyl-5-(2,6-di-trifluoromethyl-phenyl)-4-methyl-pentanoic
acid;
15 2-Aminomethyl-5-(3,4-di-trifluoromethyl-phenyl)-4-methyl-pentanoic
acid;
2-Aminomethyl-5-(3,5-di-trifluoromethyl-phenyl)-4-methyl-pentanoic
acid;
2-Aminomethyl-4-methyl-5-(2,3,4-tri-trifluoromethyl-phenyl)-pentanoic
20 acid;
2-Aminomethyl-4-methyl-5-(2,3,5-tri-trifluoromethyl-phenyl)-pentanoic
acid;
2-Aminomethyl-4-methyl-5-(2,3,6-tri-trifluoromethyl-phenyl)-pentanoic
acid;
25 2-Aminomethyl-4-methyl-5-(2,4,6-tri-trifluoromethyl-phenyl)-pentanoic
acid;
2-Aminomethyl-5-(2-trifluoromethyl-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-5-(3-trifluoromethyl-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-5-(4-trifluoromethyl-phenyl)-4-methyl-hexanoic acid;
30 2-Aminomethyl-5-(2,3-di-trifluoromethyl-phenyl)-4-methyl-hexanoic
acid;

- 2-Aminomethyl-5-(2,4-di-trifluoromethyl-phenyl)-4-methyl-hexanoic acid;
- 2-Aminomethyl-5-(2,5-di-trifluoromethyl-phenyl)-4-methyl-hexanoic acid;
- 5 2-Aminomethyl-5-(2,6-di-trifluoromethyl-phenyl)-4-methyl-hexanoic acid;
- 2-Aminomethyl-5-(3,4-di-trifluoromethyl-phenyl)-4-methyl-hexanoic acid;
- 2-Aminomethyl-5-(3,5-di-trifluoromethyl-phenyl)-4-methyl-hexanoic acid;
- 10 2-Aminomethyl-4-methyl-5-(2,3,4-tri-trifluoromethyl-phenyl)-hexanoic acid;
- 2-Aminomethyl-4-methyl-5-(2,3,5-tri-trifluoromethyl-phenyl)-hexanoic acid;
- 15 2-Aminomethyl-4-methyl-5-(2,3,6-tri-trifluoromethyl-phenyl)-hexanoic acid;
- 2-Aminomethyl-4-methyl-5-(2,4,6-tri-trifluoromethyl-phenyl)-hexanoic acid;
- 2-Aminomethyl-6-(2-trifluoromethyl-phenyl)-4-methyl-hexanoic acid;
- 20 2-Aminomethyl-6-(3-trifluoromethyl-phenyl)-4-methyl-hexanoic acid;
- 2-Aminomethyl-6-(4-trifluoromethyl-phenyl)-4-methyl-hexanoic acid;
- 2-Aminomethyl-6-(2,3-di-trifluoromethyl-phenyl)-4-methyl-hexanoic acid;
- 2-Aminomethyl-6-(2,4-di-trifluoromethyl-phenyl)-4-methyl-hexanoic acid;
- 25 2-Aminomethyl-6-(2,5-di-trifluoromethyl-phenyl)-4-methyl-hexanoic acid;
- 2-Aminomethyl-6-(2,6-di-trifluoromethyl-phenyl)-4-methyl-hexanoic acid;
- 30 2-Aminomethyl-6-(3,4-di-trifluoromethyl-phenyl)-4-methyl-hexanoic acid;

- 2-Aminomethyl-6-(3,5-di-trifluoromethyl-phenyl)-4-methyl-hexanoic acid;
- 2-Aminomethyl-4-methyl-6-(2,3,4-tri-trifluoromethyl-phenyl)-hexanoic acid;
- 5 2-Aminomethyl-4-methyl-6-(2,3,5-tri-trifluoromethyl-phenyl)-hexanoic acid;
- 2-Aminomethyl-4-methyl-6-(2,3,6-tri-trifluoromethyl-phenyl)-hexanoic acid;
- 2-Aminomethyl-4-methyl-6-(2,4,6-tri-trifluoromethyl-phenyl)-hexanoic acid;
- 10 2-Aminomethyl-5-(2-trifluoromethyl-phenyl)-4-ethyl-pentanoic acid;
- 2-Aminomethyl-5-(3-trifluoromethyl-phenyl)-4-ethyl-pentanoic acid;
- 2-Aminomethyl-5-(4-trifluoromethyl-phenyl)-4-ethyl-pentanoic acid;
- 2-Aminomethyl-5-(2,3-di-trifluoromethyl-phenyl)-4-ethyl-pentanoic acid;
- 15 2-Aminomethyl-5-(2,4-di-trifluoromethyl-phenyl)-4-ethyl-pentanoic acid;
- 2-Aminomethyl-5-(2,5-di-trifluoromethyl-phenyl)-4-ethyl-pentanoic acid;
- 2-Aminomethyl-5-(2,6-di-trifluoromethyl-phenyl)-4-ethyl-pentanoic acid;
- 2-Aminomethyl-5-(3,4-di-trifluoromethyl-phenyl)-4-ethyl-pentanoic acid;
- 2-Aminomethyl-5-(3,5-di-trifluoromethyl-phenyl)-4-ethyl-pentanoic acid;
- 20 2-Aminomethyl-4-ethyl-5-(2,3,4-tri-trifluoromethyl-phenyl)-pentanoic acid;
- 2-Aminomethyl-4-ethyl-5-(2,3,5-tri-trifluoromethyl-phenyl)-pentanoic acid;
- 2-Aminomethyl-4-ethyl-5-(2,3,6-tri-trifluoromethyl-phenyl)-pentanoic acid;
- 25 2-Aminomethyl-4-ethyl-5-(2,4,6-tri-trifluoromethyl-phenyl)-pentanoic acid;
- 2-Aminomethyl-4-ethyl-5-(2,3,4,5-tetra-trifluoromethyl-phenyl)-pentanoic acid;
- 30 2-Aminomethyl-4-ethyl-5-(2,3,4,6-tetra-trifluoromethyl-phenyl)-pentanoic acid;

- 2-Aminomethyl-4-ethyl-5-(2,3,5,6-tetra-trifluoromethyl-phenyl)-
pentanoic acid;
- 2-Aminomethyl-4-ethyl-5-penta-trifluoromethylphenyl-pentanoic acid;
- 2-Aminomethyl-6-(2-trifluoromethyl-phenyl)-4-ethyl-hexanoic acid;
- 5 2-Aminomethyl-6-(3-trifluoromethyl-phenyl)-4-ethyl-hexanoic acid;
- 2-Aminomethyl-6-(4-trifluoromethyl-phenyl)-4-ethyl-hexanoic acid;
- 2-Aminomethyl-6-(2,3-di-trifluoromethyl-phenyl)-4-ethyl-hexanoic acid;
- 2-Aminomethyl-6-(2,4-di-trifluoromethyl-phenyl)-4-ethyl-hexanoic acid;
- 2-Aminomethyl-6-(2,5-di-trifluoromethyl-phenyl)-4-ethyl-hexanoic acid;
- 10 2-Aminomethyl-6-(2,6-di-trifluoromethyl-phenyl)-4-ethyl-hexanoic acid;
- 2-Aminomethyl-6-(3,4-di-trifluoromethyl-phenyl)-4-ethyl-hexanoic acid;
- 2-Aminomethyl-6-(3,5-di-trifluoromethyl-phenyl)-4-ethyl-hexanoic acid;
- 2-Aminomethyl-4-ethyl-6-(2,3,4-tri-trifluoromethyl-phenyl)-hexanoic
acid;
- 15 2-Aminomethyl-4-ethyl-6-(2,3,5-tri-trifluoromethyl-phenyl)-hexanoic
acid;
- 2-Aminomethyl-4-ethyl-6-(2,3,6-tri-trifluoromethyl-phenyl)-hexanoic
acid;
- 2-Aminomethyl-4-ethyl-6-(2,4,6-tri-trifluoromethyl-phenyl)-hexanoic
acid;
- 20 2-Aminomethyl-7-(2-trifluoromethyl-phenyl)-4-methyl-heptanoic acid;
- 2-Aminomethyl-7-(3-trifluoromethyl-phenyl)-4-methyl-heptanoic acid;
- 2-Aminomethyl-7-(4-trifluoromethyl-phenyl)-4-methyl-heptanoic acid;
- 2-Aminomethyl-7-(2,3-di-trifluoromethyl-phenyl)-4-methyl-heptanoic
acid;
- 25 2-Aminomethyl-7-(2,4-di-trifluoromethyl-phenyl)-4-methyl-heptanoic
acid;
- 2-Aminomethyl-7-(2,5-di-trifluoromethyl-phenyl)-4-methyl-heptanoic
acid;
- 30 2-Aminomethyl-7-(2,6-di-trifluoromethyl-phenyl)-4-methyl-heptanoic
acid;

- 2-Aminomethyl-7-(3,4-di-trifluoromethyl-phenyl)-4-methyl-heptanoic acid;
- 2-Aminomethyl-7-(3,5-di-trifluoromethyl-phenyl)-4-methyl-heptanoic acid;
- 5 2-Aminomethyl-4-methyl-7-(2,3,4-tri-trifluoromethyl-phenyl)-heptanoic acid;
- 2-Aminomethyl-4-methyl-7-(2,3,5-tri-trifluoromethyl-phenyl)-heptanoic acid;
- 10 2-Aminomethyl-4-methyl-7-(2,3,6-tri-trifluoromethyl-phenyl)-heptanoic acid;
- 2-Aminomethyl-4-methyl-7-(2,4,6-tri-trifluoromethyl-phenyl)-heptanoic acid;
- 2-Aminomethyl-7-(2-trifluoromethyl-phenyl)-4-ethyl-heptanoic acid;
- 2-Aminomethyl-7-(3-trifluoromethyl-phenyl)-4-ethyl-heptanoic acid;
- 15 2-Aminomethyl-7-(4-trifluoromethyl-phenyl)-4-ethyl-heptanoic acid;
- 2-Aminomethyl-7-(2,3-di-trifluoromethyl-phenyl)-4-ethyl-heptanoic acid;
- 2-Aminomethyl-7-(2,4-di-trifluoromethyl-phenyl)-4-ethyl-heptanoic acid;
- 2-Aminomethyl-7-(2,5-di-trifluoromethyl-phenyl)-4-ethyl-heptanoic acid;
- 2-Aminomethyl-7-(2,6-di-trifluoromethyl-phenyl)-4-ethyl-heptanoic acid;
- 20 2-Aminomethyl-7-(3,4-di-trifluoromethyl-phenyl)-4-ethyl-heptanoic acid;
- 2-Aminomethyl-7-(3,5-di-trifluoromethyl-phenyl)-4-ethyl-heptanoic acid;
- 2-Aminomethyl-4-ethyl-7-(2,3,4-tri-trifluoromethyl-phenyl)-heptanoic acid;
- 2-Aminomethyl-4-ethyl-7-(2,3,5-tri-trifluoromethyl-phenyl)-heptanoic acid;
- 25 2-Aminomethyl-4-ethyl-7-(2,3,6-tri-trifluoromethyl-phenyl)-heptanoic acid;
- 2-Aminomethyl-4-ethyl-7-(2,4,6-tri-trifluoromethyl-phenyl)-heptanoic acid;
- 2-Aminomethyl-4-(2-trifluoromethoxy-phenyl)-pentanoic acid;
- 30 2-Aminomethyl-4-(3-trifluoromethoxy-phenyl)-pentanoic acid;
- 2-Aminomethyl-4-(4-trifluoromethoxy-phenyl)-pentanoic acid;

- 2-Aminomethyl-4-(2,3-di-trifluoromethoxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2,4-di-trifluoromethoxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2,5-di-trifluoromethoxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2,6-di-trifluoromethoxy-phenyl)-pentanoic acid;
5 2-Aminomethyl-4-(3,4-di-trifluoromethoxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-(3,5-di-trifluoromethoxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2,3,4-tri-trifluoromethoxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2,3,5-tri-trifluoromethoxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2,3,6-tri-trifluoromethoxy-phenyl)-pentanoic acid;
10 2-Aminomethyl-4-(2,4,6-tri-trifluoromethoxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2-trifluoromethoxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-(3-trifluoromethoxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-(4-trifluoromethoxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,3-di-trifluoromethoxy-phenyl)-hexanoic acid;
15 2-Aminomethyl-4-(2,4-di-trifluoromethoxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,5-di-trifluoromethoxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,6-di-trifluoromethoxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-(3,4-di-trifluoromethoxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-(3,5-di-trifluoromethoxy-phenyl)-hexanoic acid;
20 2-Aminomethyl-4-(2,3,4-tri-trifluoromethoxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,3,5-tri-trifluoromethoxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,3,6-tri-trifluoromethoxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,4,6-tri-trifluoromethoxy-phenyl)-hexanoic acid;
2-Aminomethyl-5-(2-trifluoromethoxy-phenyl)-4-methyl-pentanoic acid;
25 2-Aminomethyl-5-(3-trifluoromethoxy-phenyl)-4-methyl-pentanoic acid;
2-Aminomethyl-5-(4-trifluoromethoxy-phenyl)-4-methyl-pentanoic acid;
2-Aminomethyl-5-(2,3-di-trifluoromethoxy-phenyl)-4-methyl-pentanoic
acid;
2-Aminomethyl-5-(2,4-di-trifluoromethoxy-phenyl)-4-methyl-pentanoic
30 acid;
2-Aminomethyl-5-(2,5-di-trifluoromethoxy-phenyl)-4-methyl-pentanoic
acid;

- 2-Aminomethyl-5-(2,6-di-trifluoromethoxy-phenyl)-4-methyl-pentanoic acid;
- 2-Aminomethyl-5-(3,4-di-trifluoromethoxy-phenyl)-4-methyl-pentanoic acid;
- 5 2-Aminomethyl-5-(3,5-di-trifluoromethoxy-phenyl)-4-methyl-pentanoic acid;
- 2-Aminomethyl-4-methyl-5-(2,3,4-tri-trifluoromethoxy-phenyl)-pentanoic acid;
- 2-Aminomethyl-4-methyl-5-(2,3,5-tri-trifluoromethoxy-phenyl)-pentanoic acid;
- 10 2-Aminomethyl-4-methyl-5-(2,3,6-tri-trifluoromethoxy-phenyl)-pentanoic acid;
- 2-Aminomethyl-4-methyl-5-(2,4,6-tri-trifluoromethoxy-phenyl)-pentanoic acid;
- 15 2-Aminomethyl-5-(2-trifluoromethoxy-phenyl)-4-ethyl-pentanoic acid;
- 2-Aminomethyl-5-(3-trifluoromethoxy-phenyl)-4-ethyl-pentanoic acid;
- 2-Aminomethyl-5-(4-trifluoromethoxy-phenyl)-4-ethyl-pentanoic acid;
- 2-Aminomethyl-5-(2,3-di-trifluoromethoxy-phenyl)-4-ethyl-pentanoic acid;
- 20 2-Aminomethyl-5-(2,4-di-trifluoromethoxy-phenyl)-4-ethyl-pentanoic acid;
- 2-Aminomethyl-5-(2,5-di-trifluoromethoxy-phenyl)-4-ethyl-pentanoic acid;
- 2-Aminomethyl-5-(2,6-di-trifluoromethoxy-phenyl)-4-ethyl-pentanoic acid;
- 25 2-Aminomethyl-5-(3,4-di-trifluoromethoxy-phenyl)-4-ethyl-pentanoic acid;
- 2-Aminomethyl-5-(3,5-di-trifluoromethoxy-phenyl)-4-ethyl-pentanoic acid;
- 30 2-Aminomethyl-4-ethyl-5-(2,3,4-tri-trifluoromethoxy-phenyl)-pentanoic acid;

- 2-Aminomethyl-4-ethyl-5-(2,3,5-tri-trifluoromethoxy-phenyl)-pentanoic acid;
- 2-Aminomethyl-4-ethyl-5-(2,3,6-tri-trifluoromethoxy-phenyl)-pentanoic acid;
- 5 2-Aminomethyl-4-ethyl-5-(2,4,6-tri-trifluoromethoxy-phenyl)-pentanoic acid;
- 2-Aminomethyl-4-ethyl-5-(2,3,4,5-tetra-trifluoromethoxy-phenyl)-pentanoic acid;
- 2-Aminomethyl-4-ethyl-5-(2,3,4,6-tetra-trifluoromethoxy-phenyl)-pentanoic acid;
- 10 2-Aminomethyl-4-ethyl-5-(2,3,5,6-tetra-trifluoromethoxy-phenyl)-pentanoic acid;
- 2-Aminomethyl-4-ethyl-5-penta-trifluoromethoxyphenyl-pentanoic acid;
- 2-Aminomethyl-5-(2-trifluoromethoxy-phenyl)-4-methyl-hexanoic acid;
- 15 2-Aminomethyl-5-(3-trifluoromethoxy-phenyl)-4-methyl-hexanoic acid;
- 2-Aminomethyl-5-(4-trifluoromethoxy-phenyl)-4-methyl-hexanoic acid;
- 2-Aminomethyl-5-(2,3-di-trifluoromethoxy-phenyl)-4-methyl-hexanoic acid;
- 2-Aminomethyl-5-(2,4-di-trifluoromethoxy-phenyl)-4-methyl-hexanoic acid;
- 20 2-Aminomethyl-5-(2,5-di-trifluoromethoxy-phenyl)-4-methyl-hexanoic acid;
- 2-Aminomethyl-5-(2,6-di-trifluoromethoxy-phenyl)-4-methyl-hexanoic acid;
- 25 2-Aminomethyl-5-(3,4-di-trifluoromethoxy-phenyl)-4-methyl-hexanoic acid;
- 2-Aminomethyl-5-(3,5-di-trifluoromethoxy-phenyl)-4-methyl-hexanoic acid;
- 2-Aminomethyl-4-methyl-5-(2,3,4-tri-trifluoromethoxy-phenyl)-hexanoic acid;
- 30 2-Aminomethyl-4-methyl-5-(2,3,5-tri-trifluoromethoxy-phenyl)-hexanoic acid;

- 2-Aminomethyl-4-methyl-5-(2,3,6-tri-trifluoromethoxy-phenyl)-hexanoic acid;
- 2-Aminomethyl-4-methyl-5-(2,4,6-tri-trifluoromethoxy-phenyl)-hexanoic acid;
- 5 2-Aminomethyl-6-(2-trifluoromethoxy-phenyl)-4-methyl-hexanoic acid;
- 2-Aminomethyl-6-(3-trifluoromethoxy-phenyl)-4-methyl-hexanoic acid;
- 2-Aminomethyl-6-(4-trifluoromethoxy-phenyl)-4-methyl-hexanoic acid;
- 2-Aminomethyl-6-(2,3-di-trifluoromethoxy-phenyl)-4-methyl-hexanoic acid;
- 10 2-Aminomethyl-6-(2,4-di-trifluoromethoxy-phenyl)-4-methyl-hexanoic acid;
- 2-Aminomethyl-6-(2,5-di-trifluoromethoxy-phenyl)-4-methyl-hexanoic acid;
- 2-Aminomethyl-6-(2,6-di-trifluoromethoxy-phenyl)-4-methyl-hexanoic acid;
- 15 2-Aminomethyl-6-(3,4-di-trifluoromethoxy-phenyl)-4-methyl-hexanoic acid;
- 2-Aminomethyl-6-(3,5-di-trifluoromethoxy-phenyl)-4-methyl-hexanoic acid;
- 20 2-Aminomethyl-4-methyl-6-(2,3,4-tri-trifluoromethoxy-phenyl)-hexanoic acid;
- 2-Aminomethyl-4-methyl-6-(2,3,5-tri-trifluoromethoxy-phenyl)-hexanoic acid;
- 2-Aminomethyl-4-methyl-6-(2,3,6-tri-trifluoromethoxy-phenyl)-hexanoic acid;
- 25 2-Aminomethyl-4-methyl-6-(2,4,6-tri-trifluoromethoxy-phenyl)-hexanoic acid;
- 2-Aminomethyl-6-(2-trifluoromethoxy-phenyl)-4-ethyl-hexanoic acid;
- 2-Aminomethyl-6-(3-trifluoromethoxy-phenyl)-4-ethyl-hexanoic acid;
- 30 2-Aminomethyl-6-(4-trifluoromethoxy-phenyl)-4-ethyl-hexanoic acid;
- 2-Aminomethyl-6-(2,3-di-trifluoromethoxy-phenyl)-4-ethyl-hexanoic acid;

- 2-Aminomethyl-6-(2,4-di-trifluoromethoxy-phenyl)-4-ethyl-hexanoic acid;
- 2-Aminomethyl-6-(2,5-di-trifluoromethoxy-phenyl)-4-ethyl-hexanoic acid;
- 5 2-Aminomethyl-6-(2,6-di-trifluoromethoxy-phenyl)-4-ethyl-hexanoic acid;
- 2-Aminomethyl-6-(3,4-di-trifluoromethoxy-phenyl)-4-ethyl-hexanoic acid;
- 2-Aminomethyl-6-(3,5-di-trifluoromethoxy-phenyl)-4-ethyl-hexanoic acid;
- 10 2-Aminomethyl-4-ethyl-6-(2,3,4-tri-trifluoromethoxy-phenyl)-hexanoic acid;
- 2-Aminomethyl-4-ethyl-6-(2,3,5-tri-trifluoromethoxy-phenyl)-hexanoic acid;
- 15 2-Aminomethyl-4-ethyl-6-(2,3,6-tri-trifluoromethoxy-phenyl)-hexanoic acid;
- 2-Aminomethyl-4-ethyl-6-(2,4,6-tri-trifluoromethoxy-phenyl)-hexanoic acid;
- 2-Aminomethyl-7-(2-trifluoromethoxy-phenyl)-4-methyl-heptanoic acid;
- 20 2-Aminomethyl-7-(3-trifluoromethoxy-phenyl)-4-methyl-heptanoic acid;
- 2-Aminomethyl-7-(4-trifluoromethoxy-phenyl)-4-methyl-heptanoic acid;
- 2-Aminomethyl-7-(2,3-di-trifluoromethoxy-phenyl)-4-methyl-heptanoic acid;
- 2-Aminomethyl-7-(2,4-di-trifluoromethoxy-phenyl)-4-methyl-heptanoic acid;
- 25 2-Aminomethyl-7-(2,5-di-trifluoromethoxy-phenyl)-4-methyl-heptanoic acid;
- 2-Aminomethyl-7-(2,6-di-trifluoromethoxy-phenyl)-4-methyl-heptanoic acid;
- 2-Aminomethyl-7-(3,4-di-trifluoromethoxy-phenyl)-4-methyl-heptanoic acid;
- 30 2-Aminomethyl-7-(3,4-di-trifluoromethoxy-phenyl)-4-methyl-heptanoic acid;

- 2-Aminomethyl-7-(3,5-di-trifluoromethoxy-phenyl)-4-methyl-heptanoic acid;
- 2-Aminomethyl-4-methyl-7-(2,3,4-tri-trifluoromethoxy-phenyl)-heptanoic acid;
- 5 2-Aminomethyl-4-methyl-7-(2,3,5-tri-trifluoromethoxy-phenyl)-heptanoic acid;
- 2-Aminomethyl-4-methyl-7-(2,3,6-tri-trifluoromethoxy-phenyl)-heptanoic acid;
- 10 2-Aminomethyl-4-methyl-7-(2,4,6-tri-trifluoromethoxy-phenyl)-heptanoic acid;
- 2-Aminomethyl-7-(2-trifluoromethoxy-phenyl)-4-ethyl-heptanoic acid;
- 2-Aminomethyl-7-(3-trifluoromethoxy-phenyl)-4-ethyl-heptanoic acid;
- 2-Aminomethyl-7-(4-trifluoromethoxy-phenyl)-4-ethyl-heptanoic acid;
- 2-Aminomethyl-7-(2,3-di-trifluoromethoxy-phenyl)-4-ethyl-heptanoic acid;
- 15 2-Aminomethyl-7-(2,4-di-trifluoromethoxy-phenyl)-4-ethyl-heptanoic acid;
- 2-Aminomethyl-7-(2,5-di-trifluoromethoxy-phenyl)-4-ethyl-heptanoic acid;
- 20 2-Aminomethyl-7-(2,6-di-trifluoromethoxy-phenyl)-4-ethyl-heptanoic acid;
- 2-Aminomethyl-7-(3,4-di-trifluoromethoxy-phenyl)-4-ethyl-heptanoic acid;
- 2-Aminomethyl-7-(3,5-di-trifluoromethoxy-phenyl)-4-ethyl-heptanoic acid;
- 25 2-Aminomethyl-4-ethyl-7-(2,3,4-tri-trifluoromethoxy-phenyl)-heptanoic acid;
- 2-Aminomethyl-4-ethyl-7-(2,3,5-tri-trifluoromethoxy-phenyl)-heptanoic acid;
- 30 2-Aminomethyl-4-ethyl-7-(2,3,6-tri-trifluoromethoxy-phenyl)-heptanoic acid;

- 2-Aminomethyl-4-ethyl-7-(2,4,6-tri-trifluoromethoxy-phenyl)-heptanoic acid;
- 2-Aminomethyl-4-(2-ethoxy-phenyl)-pentanoic acid;
- 2-Aminomethyl-4-(3-ethoxy-phenyl)-pentanoic acid;
- 5 2-Aminomethyl-4-(4-ethoxy-phenyl)-pentanoic acid;
- 2-Aminomethyl-4-(2,3-diethoxy-phenyl)-pentanoic acid;
- 2-Aminomethyl-4-(2,4-diethoxy-phenyl)-pentanoic acid;
- 2-Aminomethyl-4-(2,5-diethoxy-phenyl)-pentanoic acid;
- 2-Aminomethyl-4-(2,6-diethoxy-phenyl)-pentanoic acid;
- 10 2-Aminomethyl-4-(3,4-diethoxy-phenyl)-pentanoic acid;
- 2-Aminomethyl-4-(3,5-diethoxy-phenyl)-pentanoic acid;
- 2-Aminomethyl-4-(2,3,4-triethoxy-phenyl)-pentanoic acid;
- 2-Aminomethyl-4-(2,3,5-triethoxy-phenyl)-pentanoic acid;
- 2-Aminomethyl-4-(2,3,6-triethoxy-phenyl)-pentanoic acid;
- 15 2-Aminomethyl-4-(2,4,6-triethoxy-phenyl)-pentanoic acid;
- 2-Aminomethyl-4-(2-ethoxy-phenyl)-hexanoic acid;
- 2-Aminomethyl-4-(3-ethoxy-phenyl)-hexanoic acid;
- 2-Aminomethyl-4-(4-ethoxy-phenyl)-hexanoic acid;
- 2-Aminomethyl-4-(2,3-diethoxy-phenyl)-hexanoic acid;
- 20 2-Aminomethyl-4-(2,4-diethoxy-phenyl)-hexanoic acid;
- 2-Aminomethyl-4-(2,5-diethoxy-phenyl)-hexanoic acid;
- 2-Aminomethyl-4-(2,6-diethoxy-phenyl)-hexanoic acid;
- 2-Aminomethyl-4-(3,4-diethoxy-phenyl)-hexanoic acid;
- 2-Aminomethyl-4-(3,5-diethoxy-phenyl)-hexanoic acid;
- 25 2-Aminomethyl-4-(2,3,4-triethoxy-phenyl)-hexanoic acid;
- 2-Aminomethyl-4-(2,3,5-triethoxy-phenyl)-hexanoic acid;
- 2-Aminomethyl-4-(2,3,6-triethoxy-phenyl)-hexanoic acid;
- 2-Aminomethyl-4-(2,4,6-triethoxy-phenyl)-hexanoic acid;
- 2-Aminomethyl-5-(2-ethoxy-phenyl)-4-methyl-pentanoic acid;
- 30 2-Aminomethyl-5-(3-ethoxy-phenyl)-4-methyl-pentanoic acid;
- 2-Aminomethyl-5-(4-ethoxy-phenyl)-4-methyl-pentanoic acid;
- 2-Aminomethyl-5-(2,3-diethoxy-phenyl)-4-methyl-pentanoic acid;

- 2-Aminomethyl-5-(2,4-diethoxy-phenyl)-4-methyl-pentanoic acid;
2-Aminomethyl-5-(2,5-diethoxy-phenyl)-4-methyl-pentanoic acid;
2-Aminomethyl-5-(2,6-diethoxy-phenyl)-4-methyl-pentanoic acid;
2-Aminomethyl-5-(3,4-diethoxy-phenyl)-4-methyl-pentanoic acid;
5 2-Aminomethyl-5-(3,5-diethoxy-phenyl)-4-methyl-pentanoic acid;
2-Aminomethyl-4-methyl-5-(2,3,4-triethoxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-methyl-5-(2,3,5-triethoxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-methyl-5-(2,3,6-triethoxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-methyl-5-(2,4,6-triethoxy-phenyl)-pentanoic acid;
10 2-Aminomethyl-5-(2-ethoxy-phenyl)-4-ethyl-pentanoic acid;
2-Aminomethyl-5-(3-ethoxy-phenyl)-4-ethyl-pentanoic acid;
2-Aminomethyl-5-(4-ethoxy-phenyl)-4-ethyl-pentanoic acid;
2-Aminomethyl-5-(2,3-diethoxy-phenyl)-4-ethyl-pentanoic acid;
2-Aminomethyl-5-(2,4-diethoxy-phenyl)-4-ethyl-pentanoic acid;
15 2-Aminomethyl-5-(2,5-diethoxy-phenyl)-4-ethyl-pentanoic acid;
2-Aminomethyl-5-(2,6-diethoxy-phenyl)-4-ethyl-pentanoic acid;
2-Aminomethyl-5-(3,4-diethoxy-phenyl)-4-ethyl-pentanoic acid;
2-Aminomethyl-5-(3,5-diethoxy-phenyl)-4-ethyl-pentanoic acid;
2-Aminomethyl-4-ethyl-5-(2,3,4-triethoxy-phenyl)-pentanoic acid;
20 2-Aminomethyl-4-ethyl-5-(2,3,5-triethoxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-ethyl-5-(2,3,6-triethoxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-ethyl-5-(2,4,6-triethoxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-ethyl-5-(2,3,4,5-tetraethoxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-ethyl-5-(2,3,4,6-tetraethoxy-phenyl)-pentanoic acid;
25 2-Aminomethyl-4-ethyl-5-(2,3,5,6-tetraethoxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-ethyl-5-pentaethoxyphenyl-pentanoic acid;
2-Aminomethyl-5-(2-ethoxy-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-5-(3-ethoxy-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-5-(4-ethoxy-phenyl)-4-methyl-hexanoic acid;
30 2-Aminomethyl-5-(2,3-diethoxy-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-5-(2,4-diethoxy-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-5-(2,5-diethoxy-phenyl)-4-methyl-hexanoic acid;

- 2-Aminomethyl-5-(2,6-diethoxy-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-5-(3,4-diethoxy-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-5-(3,5-diethoxy-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-4-methyl-5-(2,3,4-triethoxy-phenyl)-hexanoic acid;
5 2-Aminomethyl-4-methyl-5-(2,3,5-triethoxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-methyl-5-(2,3,6-triethoxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-methyl-5-(2,4,6-triethoxy-phenyl)-hexanoic acid;
2-Aminomethyl-6-(2-ethoxy-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-6-(3-ethoxy-phenyl)-4-methyl-hexanoic acid;
10 2-Aminomethyl-6-(4-ethoxy-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-6-(2,3-diethoxy-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-6-(2,4-diethoxy-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-6-(2,5-diethoxy-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-6-(2,6-diethoxy-phenyl)-4-methyl-hexanoic acid;
15 2-Aminomethyl-6-(3,4-diethoxy-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-6-(3,5-diethoxy-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-4-methyl-6-(2,3,4-triethoxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-methyl-6-(2,3,5-triethoxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-methyl-6-(2,3,6-triethoxy-phenyl)-hexanoic acid;
20 2-Aminomethyl-4-methyl-6-(2,4,6-triethoxy-phenyl)-hexanoic acid;
2-Aminomethyl-6-(2-ethoxy-phenyl)-4-ethyl-hexanoic acid;
2-Aminomethyl-6-(3-ethoxy-phenyl)-4-ethyl-hexanoic acid;
2-Aminomethyl-6-(4-ethoxy-phenyl)-4-ethyl-hexanoic acid;
2-Aminomethyl-6-(2,3-diethoxy-phenyl)-4-ethyl-hexanoic acid;
25 2-Aminomethyl-6-(2,4-diethoxy-phenyl)-4-ethyl-hexanoic acid;
2-Aminomethyl-6-(2,5-diethoxy-phenyl)-4-ethyl-hexanoic acid;
2-Aminomethyl-6-(2,6-diethoxy-phenyl)-4-ethyl-hexanoic acid;
2-Aminomethyl-6-(3,4-diethoxy-phenyl)-4-ethyl-hexanoic acid;
2-Aminomethyl-6-(3,5-diethoxy-phenyl)-4-ethyl-hexanoic acid;
30 2-Aminomethyl-4-ethyl-6-(2,3,4-triethoxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-ethyl-6-(2,3,5-triethoxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-ethyl-6-(2,3,6-triethoxy-phenyl)-hexanoic acid;

- 2-Aminomethyl-4-ethyl-6-(2,4,6-triethoxy-phenyl)-hexanoic acid;
2-Aminomethyl-7-(2-ethoxy-phenyl)-4-methyl-heptanoic acid;
2-Aminomethyl-7-(3-ethoxy-phenyl)-4-methyl-heptanoic acid;
2-Aminomethyl-7-(4-ethoxy-phenyl)-4-methyl-heptanoic acid;
5 2-Aminomethyl-7-(2,3-diethoxy-phenyl)-4-methyl-heptanoic acid;
2-Aminomethyl-7-(2,4-diethoxy-phenyl)-4-methyl-heptanoic acid;
2-Aminomethyl-7-(2,5-diethoxy-phenyl)-4-methyl-heptanoic acid;
2-Aminomethyl-7-(2,6-diethoxy-phenyl)-4-methyl-heptanoic acid;
2-Aminomethyl-7-(3,4-diethoxy-phenyl)-4-methyl-heptanoic acid;
10 2-Aminomethyl-7-(3,5-diethoxy-phenyl)-4-methyl-heptanoic acid;
2-Aminomethyl-4-methyl-7-(2,3,4-triethoxy-phenyl)-heptanoic acid;
2-Aminomethyl-4-methyl-7-(2,3,5-triethoxy-phenyl)-heptanoic acid;
2-Aminomethyl-4-methyl-7-(2,3,6-triethoxy-phenyl)-heptanoic acid;
2-Aminomethyl-4-methyl-7-(2,4,6-triethoxy-phenyl)-heptanoic acid;
15 2-Aminomethyl-7-(2-ethoxy-phenyl)-4-ethyl-heptanoic acid;
2-Aminomethyl-7-(3-ethoxy-phenyl)-4-ethyl-heptanoic acid;
2-Aminomethyl-7-(4-ethoxy-phenyl)-4-ethyl-heptanoic acid;
2-Aminomethyl-7-(2,3-diethoxy-phenyl)-4-ethyl-heptanoic acid;
2-Aminomethyl-7-(2,4-diethoxy-phenyl)-4-ethyl-heptanoic acid;
20 2-Aminomethyl-7-(2,5-diethoxy-phenyl)-4-ethyl-heptanoic acid;
2-Aminomethyl-7-(2,6-diethoxy-phenyl)-4-ethyl-heptanoic acid;
2-Aminomethyl-7-(3,4-diethoxy-phenyl)-4-ethyl-heptanoic acid;
2-Aminomethyl-7-(3,5-diethoxy-phenyl)-4-ethyl-heptanoic acid;
2-Aminomethyl-4-ethyl-7-(2,3,4-triethoxy-phenyl)-heptanoic acid;
25 2-Aminomethyl-4-ethyl-7-(2,3,5-triethoxy-phenyl)-heptanoic acid;
2-Aminomethyl-4-ethyl-7-(2,3,6-triethoxy-phenyl)-heptanoic acid;
2-Aminomethyl-4-ethyl-7-(2,4,6-triethoxy-phenyl)-heptanoic acid;
2-Aminomethyl-4-(2-methyl-phenyl)-pentanoic acid;
2-Aminomethyl-4-(3-methyl-phenyl)-pentanoic acid;
30 2-Aminomethyl-4-(4-methyl-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2,3-dimethyl-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2,4-dimethyl-phenyl)-pentanoic acid;

- 2-Aminomethyl-4-(2,5-dimethyl-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2,6-dimethyl-phenyl)-pentanoic acid;
2-Aminomethyl-4-(3,4-dimethyl-phenyl)-pentanoic acid;
2-Aminomethyl-4-(3,5-dimethyl-phenyl)-pentanoic acid;
5 2-Aminomethyl-4-(2,3,4-trimethyl-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2,3,5-trimethyl-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2,3,6-trimethyl-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2,4,6-trimethyl-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2-methyl-phenyl)-hexanoic acid;
10 2-Aminomethyl-4-(3-methyl-phenyl)-hexanoic acid;
2-Aminomethyl-4-(4-methyl-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,3-dimethyl-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,4-dimethyl-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,5-dimethyl-phenyl)-hexanoic acid;
15 2-Aminomethyl-4-(2,6-dimethyl-phenyl)-hexanoic acid;
2-Aminomethyl-4-(3,4-dimethyl-phenyl)-hexanoic acid;
2-Aminomethyl-4-(3,5-dimethyl-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,3,4-trimethyl-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,3,5-trimethyl-phenyl)-hexanoic acid;
20 2-Aminomethyl-4-(2,3,6-trimethyl-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,4,6-trimethyl-phenyl)-hexanoic acid;
2-Aminomethyl-5-(2-methyl-phenyl)-4-methyl-pentanoic acid;
2-Aminomethyl-5-(3-methyl-phenyl)-4-methyl-pentanoic acid;
2-Aminomethyl-5-(4-methyl-phenyl)-4-methyl-pentanoic acid;
25 2-Aminomethyl-5-(2,3-dimethyl-phenyl)-4-methyl-pentanoic acid;
2-Aminomethyl-5-(2,4-dimethyl-phenyl)-4-methyl-pentanoic acid;
2-Aminomethyl-5-(2,5-dimethyl-phenyl)-4-methyl-pentanoic acid;
2-Aminomethyl-5-(2,6-dimethyl-phenyl)-4-methyl-pentanoic acid;
2-Aminomethyl-5-(3,4-dimethyl-phenyl)-4-methyl-pentanoic acid;
30 2-Aminomethyl-5-(3,5-dimethyl-phenyl)-4-methyl-pentanoic acid;
2-Aminomethyl-4-methyl-5-(2,3,4-trimethyl-phenyl)-pentanoic acid;
2-Aminomethyl-4-methyl-5-(2,3,5-trimethyl-phenyl)-pentanoic acid;

- 2-Aminomethyl-4-methyl-5-(2,3,6-trimethyl-phenyl)-pentanoic acid;
2-Aminomethyl-4-methyl-5-(2,4,6-trimethyl-phenyl)-pentanoic acid;
2-Aminomethyl-5-(2-methyl-phenyl)-4-ethyl-pentanoic acid;
2-Aminomethyl-5-(3-methyl-phenyl)-4-ethyl-pentanoic acid;
5 2-Aminomethyl-5-(4-methyl-phenyl)-4-ethyl-pentanoic acid;
2-Aminomethyl-5-(2,3-dimethyl-phenyl)-4-ethyl-pentanoic acid;
2-Aminomethyl-5-(2,4-dimethyl-phenyl)-4-ethyl-pentanoic acid;
2-Aminomethyl-5-(2,5-dimethyl-phenyl)-4-ethyl-pentanoic acid;
2-Aminomethyl-5-(2,6-dimethyl-phenyl)-4-ethyl-pentanoic acid;
10 2-Aminomethyl-5-(3,4-dimethyl-phenyl)-4-ethyl-pentanoic acid;
2-Aminomethyl-5-(3,5-dimethyl-phenyl)-4-ethyl-pentanoic acid;
2-Aminomethyl-4-ethyl-5-(2,3,4-trimethyl-phenyl)-pentanoic acid;
2-Aminomethyl-4-ethyl-5-(2,3,5-trimethyl-phenyl)-pentanoic acid;
2-Aminomethyl-4-ethyl-5-(2,3,6-trimethyl-phenyl)-pentanoic acid;
15 2-Aminomethyl-4-ethyl-5-(2,4,6-trimethyl-phenyl)-pentanoic acid;
2-Aminomethyl-4-ethyl-5-(2,3,4,5-tetramethyl-phenyl)-pentanoic acid;
2-Aminomethyl-4-ethyl-5-(2,3,4,6-tetramethyl-phenyl)-pentanoic acid;
2-Aminomethyl-4-ethyl-5-(2,3,5,6-tetramethyl-phenyl)-pentanoic acid;
2-Aminomethyl-4-ethyl-5-pentamethylphenyl-pentanoic acid;
20 2-Aminomethyl-5-(2-methyl-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-5-(3-methyl-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-5-(4-methyl-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-5-(2,3-dimethyl-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-5-(2,4-dimethyl-phenyl)-4-methyl-hexanoic acid;
25 2-Aminomethyl-5-(2,5-dimethyl-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-5-(2,6-dimethyl-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-5-(3,4-dimethyl-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-5-(3,5-dimethyl-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-4-methyl-5-(2,3,4-trimethyl-phenyl)-hexanoic acid;
30 2-Aminomethyl-4-methyl-5-(2,3,5-trimethyl-phenyl)-hexanoic acid;
2-Aminomethyl-4-methyl-5-(2,3,6-trimethyl-phenyl)-hexanoic acid;
2-Aminomethyl-4-methyl-5-(2,4,6-trimethyl-phenyl)-hexanoic acid;

- 2-Aminomethyl-6-(2-methyl-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-6-(3-methyl-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-6-(4-methyl-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-6-(2,3-dimethyl-phenyl)-4-methyl-hexanoic acid;
5 2-Aminomethyl-6-(2,4-dimethyl-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-6-(2,5-dimethyl-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-6-(2,6-dimethyl-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-6-(3,4-dimethyl-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-6-(3,5-dimethyl-phenyl)-4-methyl-hexanoic acid;
10 2-Aminomethyl-4-methyl-6-(2,3,4-trimethyl-phenyl)-hexanoic acid;
2-Aminomethyl-4-methyl-6-(2,3,5-trimethyl-phenyl)-hexanoic acid;
2-Aminomethyl-4-methyl-6-(2,3,6-trimethyl-phenyl)-hexanoic acid;
2-Aminomethyl-4-methyl-6-(2,4,6-trimethyl-phenyl)-hexanoic acid;
2-Aminomethyl-6-(2-methyl-phenyl)-4-ethyl-hexanoic acid;
15 2-Aminomethyl-6-(3-methyl-phenyl)-4-ethyl-hexanoic acid;
2-Aminomethyl-6-(4-methyl-phenyl)-4-ethyl-hexanoic acid;
2-Aminomethyl-6-(2,3-dimethyl-phenyl)-4-ethyl-hexanoic acid;
2-Aminomethyl-6-(2,4-dimethyl-phenyl)-4-ethyl-hexanoic acid;
2-Aminomethyl-6-(2,5-dimethyl-phenyl)-4-ethyl-hexanoic acid;
20 2-Aminomethyl-6-(2,6-dimethyl-phenyl)-4-ethyl-hexanoic acid;
2-Aminomethyl-6-(3,4-dimethyl-phenyl)-4-ethyl-hexanoic acid;
2-Aminomethyl-6-(3,5-dimethyl-phenyl)-4-ethyl-hexanoic acid;
2-Aminomethyl-4-ethyl-6-(2,3,4-trimethyl-phenyl)-hexanoic acid;
2-Aminomethyl-4-ethyl-6-(2,3,5-trimethyl-phenyl)-hexanoic acid;
25 2-Aminomethyl-4-ethyl-6-(2,3,6-trimethyl-phenyl)-hexanoic acid;
2-Aminomethyl-4-ethyl-6-(2,4,6-trimethyl-phenyl)-hexanoic acid;
2-Aminomethyl-7-(2-methyl-phenyl)-4-methyl-heptanoic acid;
2-Aminomethyl-7-(3-methyl-phenyl)-4-methyl-heptanoic acid;
2-Aminomethyl-7-(4-methyl-phenyl)-4-methyl-heptanoic acid;
30 2-Aminomethyl-7-(2,3-dimethyl-phenyl)-4-methyl-heptanoic acid;
2-Aminomethyl-7-(2,4-dimethyl-phenyl)-4-methyl-heptanoic acid;
2-Aminomethyl-7-(2,5-dimethyl-phenyl)-4-methyl-heptanoic acid;

- 2-Aminomethyl-7-(2,6-dimethyl-phenyl)-4-methyl-heptanoic acid;
2-Aminomethyl-7-(3,4-dimethyl-phenyl)-4-methyl-heptanoic acid;
2-Aminomethyl-7-(3,5-dimethyl-phenyl)-4-methyl-heptanoic acid;
2-Aminomethyl-4-methyl-7-(2,3,4-trimethyl-phenyl)-heptanoic acid;
5 2-Aminomethyl-4-methyl-7-(2,3,5-trimethyl-phenyl)-heptanoic acid;
2-Aminomethyl-4-methyl-7-(2,3,6-trimethyl-phenyl)-heptanoic acid;
2-Aminomethyl-4-methyl-7-(2,4,6-trimethyl-phenyl)-heptanoic acid;
2-Aminomethyl-7-(2-methyl-phenyl)-4-ethyl-heptanoic acid;
2-Aminomethyl-7-(3-methyl-phenyl)-4-ethyl-heptanoic acid;
10 2-Aminomethyl-7-(4-methyl-phenyl)-4-ethyl-heptanoic acid;
2-Aminomethyl-7-(2,3-dimethyl-phenyl)-4-ethyl-heptanoic acid;
2-Aminomethyl-7-(2,4-dimethyl-phenyl)-4-ethyl-heptanoic acid;
2-Aminomethyl-7-(2,5-dimethyl-phenyl)-4-ethyl-heptanoic acid;
2-Aminomethyl-7-(2,6-dimethyl-phenyl)-4-ethyl-heptanoic acid;
15 2-Aminomethyl-7-(3,4-dimethyl-phenyl)-4-ethyl-heptanoic acid;
2-Aminomethyl-7-(3,5-dimethyl-phenyl)-4-ethyl-heptanoic acid;
2-Aminomethyl-4-ethyl-7-(2,3,4-trimethyl-phenyl)-heptanoic acid;
2-Aminomethyl-4-ethyl-7-(2,3,5-trimethyl-phenyl)-heptanoic acid;
2-Aminomethyl-4-ethyl-7-(2,3,6-trimethyl-phenyl)-heptanoic acid;
20 2-Aminomethyl-4-ethyl-7-(2,4,6-trimethyl-phenyl)-heptanoic acid;
2-Aminomethyl-4-(2-hydroxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-(3-hydroxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-(4-hydroxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2,3-dihydroxy-phenyl)-pentanoic acid;
25 2-Aminomethyl-4-(2,4-dihydroxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2,5-dihydroxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2,6-dihydroxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-(3,4-dihydroxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-(3,5-dihydroxy-phenyl)-pentanoic acid;
30 2-Aminomethyl-4-(2,3,4-trihydroxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2,3,5-trihydroxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2,3,6-trihydroxy-phenyl)-pentanoic acid;

- 2-Aminomethyl-4-(2,4,6-trihydroxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-(2-hydroxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-(3-hydroxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-(4-hydroxy-phenyl)-hexanoic acid;
5 2-Aminomethyl-4-(2,3-dihydroxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,4-dihydroxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,5-dihydroxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,6-dihydroxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-(3,4-dihydroxy-phenyl)-hexanoic acid;
10 2-Aminomethyl-4-(3,5-dihydroxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,3,4-trihydroxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,3,5-trihydroxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,3,6-trihydroxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-(2,4,6-trihydroxy-phenyl)-hexanoic acid;
15 2-Aminomethyl-5-(2-hydroxy-phenyl)-4-methyl-pentanoic acid;
2-Aminomethyl-5-(3-hydroxy-phenyl)-4-methyl-pentanoic acid;
2-Aminomethyl-5-(4-hydroxy-phenyl)-4-methyl-pentanoic acid;
2-Aminomethyl-5-(2,3-dihydroxy-phenyl)-4-methyl-pentanoic acid;
2-Aminomethyl-5-(2,4-dihydroxy-phenyl)-4-methyl-pentanoic acid;
20 2-Aminomethyl-5-(2,5-dihydroxy-phenyl)-4-methyl-pentanoic acid;
2-Aminomethyl-5-(2,6-dihydroxy-phenyl)-4-methyl-pentanoic acid;
2-Aminomethyl-5-(3,4-dihydroxy-phenyl)-4-methyl-pentanoic acid;
2-Aminomethyl-5-(3,5-dihydroxy-phenyl)-4-methyl-pentanoic acid;
2-Aminomethyl-4-methyl-5-(2,3,4-trihydroxy-phenyl)-pentanoic acid;
25 2-Aminomethyl-4-methyl-5-(2,3,5-trihydroxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-methyl-5-(2,3,6-trihydroxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-methyl-5-(2,4,6-trihydroxy-phenyl)-pentanoic acid;
2-Aminomethyl-5-(2-hydroxy-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-5-(3-hydroxy-phenyl)-4-methyl-hexanoic acid;
30 2-Aminomethyl-5-(4-hydroxy-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-5-(2,3-dihydroxy-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-5-(2,4-dihydroxy-phenyl)-4-methyl-hexanoic acid;

- 2-Aminomethyl-5-(2,5-dihydroxy-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-5-(2,6-dihydroxy-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-5-(3,4-dihydroxy-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-5-(3,5-dihydroxy-phenyl)-4-methyl-hexanoic acid;
5 2-Aminomethyl-4-methyl-5-(2,3,4-trihydroxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-methyl-5-(2,3,5-trihydroxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-methyl-5-(2,3,6-trihydroxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-methyl-5-(2,4,6-trihydroxy-phenyl)-hexanoic acid;
2-Aminomethyl-6-(2-hydroxy-phenyl)-4-methyl-hexanoic acid;
10 2-Aminomethyl-6-(3-hydroxy-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-6-(4-hydroxy-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-6-(2,3-dihydroxy-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-6-(2,4-dihydroxy-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-6-(2,5-dihydroxy-phenyl)-4-methyl-hexanoic acid;
15 2-Aminomethyl-6-(2,6-dihydroxy-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-6-(3,4-dihydroxy-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-6-(3,5-dihydroxy-phenyl)-4-methyl-hexanoic acid;
2-Aminomethyl-4-methyl-6-(2,3,4-trihydroxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-methyl-6-(2,3,5-trihydroxy-phenyl)-hexanoic acid;
20 2-Aminomethyl-4-methyl-6-(2,3,6-trihydroxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-methyl-6-(2,4,6-trihydroxy-phenyl)-hexanoic acid;
2-Aminomethyl-5-(2-hydroxy-phenyl)-4-ethyl-pentanoic acid;
2-Aminomethyl-5-(3-hydroxy-phenyl)-4-ethyl-pentanoic acid;
2-Aminomethyl-5-(4-hydroxy-phenyl)-4-ethyl-pentanoic acid;
25 2-Aminomethyl-5-(2,3-dihydroxy-phenyl)-4-ethyl-pentanoic acid;
2-Aminomethyl-5-(2,4-dihydroxy-phenyl)-4-ethyl-pentanoic acid;
2-Aminomethyl-5-(2,5-dihydroxy-phenyl)-4-ethyl-pentanoic acid;
2-Aminomethyl-5-(2,6-dihydroxy-phenyl)-4-ethyl-pentanoic acid;
2-Aminomethyl-5-(3,4-dihydroxy-phenyl)-4-ethyl-pentanoic acid;
30 2-Aminomethyl-5-(3,5-dihydroxy-phenyl)-4-ethyl-pentanoic acid;
2-Aminomethyl-4-ethyl-5-(2,3,4-trihydroxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-ethyl-5-(2,3,5-trihydroxy-phenyl)-pentanoic acid;

- 2-Aminomethyl-4-ethyl-5-(2,3,6-trihydroxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-ethyl-5-(2,4,6-trihydroxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-ethyl-5-(2,3,4,5-tetrahydroxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-ethyl-5-(2,3,4,6-tetrahydroxy-phenyl)-pentanoic acid;
5 2-Aminomethyl-4-ethyl-5-(2,3,5,6-tetrahydroxy-phenyl)-pentanoic acid;
2-Aminomethyl-4-ethyl-5-pentahydroxyphenyl-pentanoic acid;
2-Aminomethyl-6-(2-hydroxy-phenyl)-4-ethyl-hexanoic acid;
2-Aminomethyl-6-(3-hydroxy-phenyl)-4-ethyl-hexanoic acid;
2-Aminomethyl-6-(4-hydroxy-phenyl)-4-ethyl-hexanoic acid;
10 2-Aminomethyl-6-(2,3-dihydroxy-phenyl)-4-ethyl-hexanoic acid;
2-Aminomethyl-6-(2,4-dihydroxy-phenyl)-4-ethyl-hexanoic acid;
2-Aminomethyl-6-(2,5-dihydroxy-phenyl)-4-ethyl-hexanoic acid;
2-Aminomethyl-6-(2,6-dihydroxy-phenyl)-4-ethyl-hexanoic acid;
2-Aminomethyl-6-(3,4-dihydroxy-phenyl)-4-ethyl-hexanoic acid;
15 2-Aminomethyl-6-(3,5-dihydroxy-phenyl)-4-ethyl-hexanoic acid;
2-Aminomethyl-4-ethyl-6-(2,3,4-trihydroxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-ethyl-6-(2,3,5-trihydroxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-ethyl-6-(2,3,6-trihydroxy-phenyl)-hexanoic acid;
2-Aminomethyl-4-ethyl-6-(2,4,6-trihydroxy-phenyl)-hexanoic acid;
20 2-Aminomethyl-7-(2-hydroxy-phenyl)-4-methyl-heptanoic acid;
2-Aminomethyl-7-(3-hydroxy-phenyl)-4-methyl-heptanoic acid;
2-Aminomethyl-7-(4-hydroxy-phenyl)-4-methyl-heptanoic acid;
2-Aminomethyl-7-(2,3-dihydroxy-phenyl)-4-methyl-heptanoic acid;
2-Aminomethyl-7-(2,4-dihydroxy-phenyl)-4-methyl-heptanoic acid;
25 2-Aminomethyl-7-(2,5-dihydroxy-phenyl)-4-methyl-heptanoic acid;
2-Aminomethyl-7-(2,6-dihydroxy-phenyl)-4-methyl-heptanoic acid;
2-Aminomethyl-7-(3,4-dihydroxy-phenyl)-4-methyl-heptanoic acid;
2-Aminomethyl-7-(3,5-dihydroxy-phenyl)-4-methyl-heptanoic acid;
2-Aminomethyl-4-methyl-7-(2,3,4-trihydroxy-phenyl)-heptanoic acid;
30 2-Aminomethyl-4-methyl-7-(2,3,5-trihydroxy-phenyl)-heptanoic acid;
2-Aminomethyl-4-methyl-7-(2,3,6-trihydroxy-phenyl)-heptanoic acid;
2-Aminomethyl-4-methyl-7-(2,4,6-trihydroxy-phenyl)-heptanoic acid;

- 2-Aminomethyl-7-(2-hydroxy-phenyl)-4-ethyl-heptanoic acid;
2-Aminomethyl-7-(3-hydroxy-phenyl)-4-ethyl-heptanoic acid;
2-Aminomethyl-7-(4-hydroxy-phenyl)-4-ethyl-heptanoic acid;
2-Aminomethyl-7-(2,3-dihydroxy-phenyl)-4-ethyl-heptanoic acid;
5 2-Aminomethyl-7-(2,4-dihydroxy-phenyl)-4-ethyl-heptanoic acid;
2-Aminomethyl-7-(2,5-dihydroxy-phenyl)-4-ethyl-heptanoic acid;
2-Aminomethyl-7-(2,6-dihydroxy-phenyl)-4-ethyl-heptanoic acid;
2-Aminomethyl-7-(3,4-dihydroxy-phenyl)-4-ethyl-heptanoic acid;
2-Aminomethyl-7-(3,5-dihydroxy-phenyl)-4-ethyl-heptanoic acid;
10 2-Aminomethyl-4-ethyl-7-(2,3,4-trihydroxy-phenyl)-heptanoic acid;
2-Aminomethyl-4-ethyl-7-(2,3,5-trihydroxy-phenyl)-heptanoic acid;
2-Aminomethyl-4-ethyl-7-(2,3,6-trihydroxy-phenyl)-heptanoic acid;
2-Aminomethyl-4-ethyl-7-(2,4,6-trihydroxy-phenyl)-heptanoic acid;
2-Aminomethyl-4-ethyl-7-(2,3,4,5-tetrahydroxy-phenyl)-heptanoic acid;
15 2-Aminomethyl-4-ethyl-7-(2,3,4,6-tetrahydroxy-phenyl)-heptanoic acid;
2-Aminomethyl-4-ethyl-7-(2,3,5,6-tetrahydroxy-phenyl)-heptanoic acid;
2-Aminomethyl-4-ethyl-7-pentahydroxyphenyl-heptanoic acid;
(2R,4R)-2-Aminomethyl-4-(2,4-difluoro-benzyl)-hexanoic acid;
(2S,4R)-2-Aminomethyl-4-(2,4-difluoro-benzyl)-hexanoic acid;
20 (2R,4S)-2-Aminomethyl-7-(2,4-difluoro-phenyl)-4-ethyl-heptanoic acid;
(2S,4S)-2-Aminomethyl-7-(2,4-difluoro-phenyl)-4-ethyl-heptanoic acid;
(2R,4S)-2-Aminomethyl-4-(2,4-difluoro-benzyl)-hexanoic acid;
(2S,4S)-2-Aminomethyl-4-(2,4-difluoro-benzyl)-hexanoic acid;
(2S,4S)-2-Aminomethyl-4-(3,5-difluoro-benzyl)-hexanoic acid;
25 (2S,4S)-2-Aminomethyl-4-(2-fluoro-benzyl)-hexanoic acid;
(2S,4S)-2-Aminomethyl-5-(2,4-difluoro-phenyl)-4-methyl-pentanoic
acid;
(2S)-2-Aminomethyl-5-(2,4-difluoro-phenyl)-pentanoic acid;
(2S,4S)-2-Aminomethyl-4-(2,6-difluoro-benzyl)-hexanoic acid;
30 (2S,4S)-2-Aminomethyl-4-(4-fluoro-benzyl)-hexanoic acid;
(2S,4S)-2-Aminomethyl-4-(2,5-difluoro-benzyl)-hexanoic acid;
(2S,4S)-2-Aminomethyl-4-(3-fluoro-benzyl)-hexanoic acid;

- (2S,4S)-2-Aminomethyl-4-pentafluorophenylmethyl-hexanoic acid;
(2S,4R)-2-Aminomethyl-7-(2,4-difluoro-phenyl)-4-ethyl-heptanoic acid;
(2S,4S)-2-Aminomethyl-4-(4-trifluoromethyl-benzyl)-hexanoic acid;
2-Aminomethyl-4-(4-methoxy-2-methyl-benzyl)-hexanoic acid;
5 2-Aminomethyl-5-(4-methoxy-2-methyl-phenyl)-4-methyl-pentanoic acid;
2-Aminomethyl-4-(4-methoxy-3-methyl-benzyl)-hexanoic acid;
2-Aminomethyl-5-(4-methoxy-3-methyl-phenyl)-4-methyl-pentanoic acid;
10 2-Aminomethyl-4-ethyl-5-methyl-hexanoic acid;
2-Aminomethyl-4-ethyl-3-methyl-hexanoic acid;
2-Aminomethyl-3,4-dimethyl-hexanoic acid;
2-Aminomethyl-3-ethyl-4-methyl-hexanoic acid;
2-Aminomethyl-4-ethyl-3-methyl-heptanoic acid;
15 2-Aminomethyl-3,4-dimethyl-octanoic acid;
2-Aminomethyl-3-methyl-pentanoic acid;
2-Aminomethyl-3-methyl-hexanoic acid;
2-Aminomethyl-3-methyl-heptanoic acid;
2-Aminomethyl-3,4-dimethyl-pentanoic acid;
20 2-Aminomethyl-3,5-dimethyl-hexanoic acid;
2-Aminomethyl-3,6-dimethyl-heptanoic acid;
2-Aminomethyl-3,5,5-trimethyl-hexanoic acid;
2-Aminomethyl-3-cyclopropyl-butyric acid;
2-Aminomethyl-3-cyclopentyl-butyric acid;
25 2-Aminomethyl-3-cyclohexyl-butyric acid;
2-Aminomethyl-4-cyclohexyl-3-methyl-butyric acid;
2-Aminomethyl-5-cyclohexyl-3-methyl-pentanoic acid;
2-Aminomethyl-3-methyl-4-(4-methyl-cyclohexyl)-butyric acid;
2-Aminomethyl-3-ethyl-pentanoic acid;
30 2-Aminomethyl-3-ethyl-hexanoic acid;
2-Aminomethyl-3-ethyl-heptanoic acid;
2-Aminomethyl-3-ethyl-4-methyl-pentanoic acid;

- 2-Aminomethyl-3-cyclohexylmethyl-pentanoic acid;
2-Aminomethyl-5-(4-methoxy-cyclohexyl)-3-methyl-pentanoic acid;
2-Aminomethyl-5-(4-methoxy-phenyl)-3-methyl-pentanoic acid;
2-Aminomethyl-4-(2-methoxy-phenyl)-3-methyl-butyric acid;
5 2-Aminomethyl-4-(4-methoxy-phenyl)-3-methyl-butyric acid;
2-Aminomethyl-3-phenyl-butyric acid;
2-Aminomethyl-3-methyl-4-phenyl-butyric acid;
2-Aminomethyl-3-methyl-5-phenyl-pentanoic acid;
2-Aminomethyl-3-methyl-4-(3-trifluoromethyl-phenyl)-butyric acid;
10 2-Aminomethyl-3-(4-ethyl-phenyl)-butyric acid;
2-Aminomethyl-3-(2,5-dimethyl-phenyl)-butyric acid;
2-Aminomethyl-3-methyl-4-p-tolyl-butyric acid;
2-Aminomethyl-3-m-tolyl-butyric acid;
2-Aminomethyl-3-benzyl-pentanoic acid;
15 2-Aminomethyl-4-(4-fluoro-phenyl)-3-methyl-butyric acid;
2-Aminomethyl-5-cyclopropyl-hexanoic acid;
2-Aminomethyl-5-cyclobutyl-hexanoic acid;
2-Aminomethyl-5-cyclopentyl-hexanoic acid;
2-Aminomethyl-5-cyclohexyl-hexanoic acid;
20 2-Aminomethyl-5-phenyl-hexanoic acid;
2-Aminomethyl-5-(3-chloro-phenyl)-hexanoic acid;
2-Aminomethyl-5-(3-trifluoromethyl-phenyl)-hexanoic acid;
2-Aminomethyl-5-(4-trifluoromethyl-phenyl)-hexanoic acid;
2-Aminomethyl-5-cyclopropyl-heptanoic acid;
25 2-Aminomethyl-5-cyclobutyl-heptanoic acid;
2-Aminomethyl-5-cyclopentyl-heptanoic acid;
2-Aminomethyl-5-cyclohexyl-heptanoic acid;
2-Aminomethyl-5-phenyl-heptanoic acid;
2-Aminomethyl-5-(3-chloro-phenyl)-heptanoic acid;
30 2-Aminomethyl-5-(3-trifluoromethyl-phenyl)-heptanoic acid;
2-Aminomethyl-5-(4-trifluoromethyl-phenyl)-heptanoic acid;
2-Aminomethyl-5-methyl-6-phenyl-hexanoic acid;

- 2-Aminomethyl-6-(3-chloro-phenyl)-5-methyl-hexanoic acid;
2-Aminomethyl-5-methyl-6-(3-trifluoromethyl-phenyl)-hexanoic acid;
2-Aminomethyl-5-methyl-6-(4-trifluoromethyl-phenyl)-hexanoic acid;
2-Aminomethyl-5-cyclopropylmethyl-heptanoic acid;
5 2-Aminomethyl-5-cyclobutylmethyl-heptanoic acid;
2-Aminomethyl-5-cyclopentylmethyl-heptanoic acid;
2-Aminomethyl-5-cyclohexylmethyl-heptanoic acid;
2-Aminomethyl-5-benzyl-heptanoic acid;
2-Aminomethyl-5-(3-chloro-benzyl)-heptanoic acid;
10 2-Aminomethyl-5-(3-trifluoromethyl-benzyl)-heptanoic acid;
2-Aminomethyl-5-(4-trifluoromethyl-benzyl)-heptanoic acid;
2-Aminomethyl-5-methyl-7-phenyl-heptanoic acid;
2-Aminomethyl-7-(3-chloro-phenyl)-5-methyl-heptanoic acid;
2-Aminomethyl-5-methyl-7-(3-trifluoromethyl-phenyl)-heptanoic acid;
15 2-Aminomethyl-5-methyl-7-(4-trifluoromethyl-phenyl)-heptanoic acid;
2-Aminomethyl-7-cyclopropyl-5-ethyl-heptanoic acid;
2-Aminomethyl-7-cyclobutyl-5-ethyl-heptanoic acid;
2-Aminomethyl-7-cyclopentyl-5-ethyl-heptanoic acid;
2-Aminomethyl-7-cyclohexyl-5-ethyl-heptanoic acid;
20 2-Aminomethyl-5-ethyl-7-phenyl-heptanoic acid;
2-Aminomethyl-7-(3-chloro-phenyl)-5-ethyl-heptanoic acid;
2-Aminomethyl-5-ethyl-7-(3-trifluoromethyl-phenyl)-heptanoic acid;
2-Aminomethyl-5-ethyl-7-(4-trifluoromethyl-phenyl)-heptanoic acid;
2-Aminomethyl-5,5-dimethyl-heptanoic acid;
25 2-Aminomethyl-5,5-dimethyl-octanoic acid; and
2-Aminomethyl-5,5-dimethyl-nonanoic acid.

13. A compound selected from the following compounds and their pharmaceutically acceptable salts:

- (3R,4R)-3-Amino-4,5-dimethyl-hexanoic acid;
30 (3S,4R)-3-Amino-4,5-dimethyl-hexanoic acid;
(3R,4R,5R)-3-Amino-4,5-dimethyl-heptanoic acid;

- 5 (3S,4R,5R)-3-Amino-4,5-dimethyl-heptanoic acid;
(3R,4S,5R)-3-Amino-4,5-dimethyl-heptanoic acid;
(3R,4R,5S)-3-Amino-4,5-dimethyl-heptanoic acid;
(3R,4R,5R)-3-Amino-4,5-dimethyl-octanoic acid;
(3S,4R,5R)-3-Amino-4,5-dimethyl-octanoic acid;
(3R,4S,5R)-3-Amino-4,5-dimethyl-octanoic acid;
(3R,4R,5S)-3-Amino-4,5-dimethyl-octanoic acid;
(3R,4R,5R)-3-Amino-4,5-dimethyl-nonanoic acid;
(3S,4R,5R)-3-Amino-4,5-dimethyl-nonanoic acid;
10 (3R,4S,5R)-3-Amino-4,5-dimethyl-nonanoic acid;
(3R,4R,5S)-3-Amino-4,5-dimethyl-nonanoic acid;
(3R,4R,5R)-3-Amino-4,5-dimethyl-decanoic acid;
(3S,4R,5R)-3-Amino-4,5-dimethyl-decanoic acid;
(3R,4S,5R)-3-Amino-4,5-dimethyl-decanoic acid;
15 (3R,4R,5S)-3-Amino-4,5-dimethyl-decanoic acid;
and opposite enantiomers thereof.

14. A compound selected from the following compounds and their pharmaceutically acceptable salts:

- 20 (3R,4R)-3-Amino-4,5-dimethyl-hexanoic acid;
(3R,4R,5R)-3-Amino-4,5-dimethyl-heptanoic acid;
(3R,4R,5R)-3-Amino-4,5-dimethyl-octanoic acid;
(3R,4R,5R)-3-Amino-4,5-dimethyl-nonanoic acid; and
(3R,4R,5R)-3-Amino-4,5-dimethyl-decanoic acid.

15. A compound selected from the following compounds and their pharmaceutically acceptable salts:

- 25 (2R,4R)-2-Aminomethyl-4-(2,4-difluoro-benzyl)-hexanoic acid;
(2S,4R)-2-Aminomethyl-4-(2,4-difluoro-benzyl)-hexanoic acid;
(2R,4S)-2-Aminomethyl-7-(2,4-difluoro-phenyl)-4-ethyl-heptanoic acid;
(2S,4S)-2-Aminomethyl-7-(2,4-difluoro-phenyl)-4-ethyl-heptanoic acid;
30 (2R,4S)-2-Aminomethyl-4-(2,4-difluoro-benzyl)-hexanoic acid;

- (2S,4S)-2-Aminomethyl-4-(2,4-difluoro-benzyl)-hexanoic acid;
(2S,4S)-2-Aminomethyl-4-(3,5-difluoro-benzyl)-hexanoic acid;
(2S,4S)-2-Aminomethyl-4-(2-fluoro-benzyl)-hexanoic acid;
5 (2S,4S)-2-Aminomethyl-5-(2,4-difluoro-phenyl)-4-methyl-pentanoic
acid;
(2S)-2-Aminomethyl-5-(2,4-difluoro-phenyl)-pentanoic acid;
(2S,4S)-2-Aminomethyl-4-(2,6-difluoro-benzyl)-hexanoic acid;
(2S,4S)-2-Aminomethyl-4-(4-fluoro-benzyl)-hexanoic acid;
(2S,4S)-2-Aminomethyl-4-(2,5-difluoro-benzyl)-hexanoic acid;
10 (2S,4S)-2-Aminomethyl-4-(3-fluoro-benzyl)-hexanoic acid;
(2S,4S)-2-Aminomethyl-4-pentafluorophenylmethyl-hexanoic acid;
(2S,4R)-2-Aminomethyl-7-(2,4-difluoro-phenyl)-4-ethyl-heptanoic acid;
and
(2S,4S)-2-Aminomethyl-4-(4-trifluoromethyl-benzyl)-hexanoic acid.

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