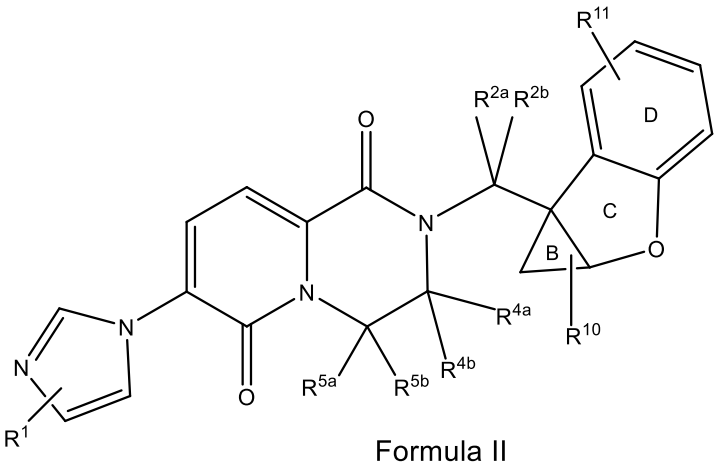
claims

1. A compound having the structure of Formula II:



Formula II

or a pharmaceutically acceptable salt thereof, wherein:

R^1 is methyl;

R^{2a}, R^{2b}, R^{4a}, R^{4b}, R^{5a} and R^{5b} are each hydrogen;

ring B is substituted with one R^{10}, which is methyl; and

ring D is substituted with one to three R^{11}, wherein each R^{11} is independently selected from chloro, fluoro, fluoromethyl, difluoromethyl, trifluoromethyl, fluoromethoxy, difluoromethoxy, trifluoromethoxy.

2. A compound selected from the group consisting of:

7-(4-methyl-1*H*-imidazol-1-yl)-2-{[1a-methyl-5-(trifluoromethoxy)-1,1a-dihydro-6b*H*-cyclopropa[*b*][1]benzofuran-6b-yl]methyl}-3,4-dihydro-2*H*-pyrido[1,2-*a*]pyrazine-1,6-dione;

7-(4-methyl-1*H*-imidazol-1-yl)-2-{[(1a*S*,6b*S*)-1a-methyl-5-(trifluoromethoxy)-1,1a-dihydro-6b*H*-cyclopropa[*b*][1]benzofuran-6b-yl]methyl}-3,4-dihydro-2*H*-pyrido[1,2-*a*]pyrazine-1,6-dione;

7-(4-methyl-1*H*-imidazol-1-yl)-2-{[(1a*R*,6b*R*)-1a-methyl-5-(trifluoromethoxy)-1,1a-dihydro-6b*H*-cyclopropa[*b*][1]benzofuran-6b-yl]methyl}-3,4-dihydro-2*H*-pyrido[1,2-*a*]pyrazine-1,6-dione;

2-{[3-fluoro-1a-methyl-5-(trifluoromethoxy)-1,1a-dihydro-6b*H*-cyclopropa[*b*][1]benzofuran-6b-yl]methyl}-7-(4-methyl-1*H*-imidazol-1-yl)-3,4-dihydro-2*H*-pyrido[1,2-*a*]pyrazine-1,6-dione;

2-{[(1a*S*,6b*S*)-3-fluoro-1a-methyl-5-(trifluoromethoxy)-1,1a-dihydro-6b*H*-cyclopropa[*b*][1]benzofuran-6b-yl]methyl}-7-(4-methyl-1*H*-imidazol-1-yl)-3,4-dihydro-2*H*-pyrido[1,2-*a*]pyrazine-1,6-dione;

2-{[(1a*R*,6b*R*)-3-fluoro-1a-methyl-5-(trifluoromethoxy)-1,1a-dihydro-6b*H*-cyclopropa[*b*][1]benzofuran-6b-yl]methyl}-7-(4-methyl-1*H*-imidazol-1-yl)-3,4-dihydro-2*H*-pyrido[1,2-*a*]pyrazine-1,6-dione;

2-{[4-fluoro-1a-methyl-5-(trifluoromethoxy)-1,1a-dihydro-6b*H*-cyclopropa[*b*][1]benzofuran-6b-yl]methyl}-7-(4-methyl-1*H*-imidazol-1-yl)-3,4-dihydro-2*H*-pyrido[1,2-*a*]pyrazine-1,6-dione;

2-{[(1a*S*,6b*S*)-4-fluoro-1a-methyl-5-(trifluoromethoxy)-1,1a-dihydro-6b*H*-cyclopropa[*b*][1]benzofuran-6b-yl]methyl}-7-(4-methyl-1*H*-imidazol-1-yl)-3,4-dihydro-2*H*-pyrido[1,2-*a*]pyrazine-1,6-dione;

2-{[(1a*R*,6b*R*)-4-fluoro-1a-methyl-5-(trifluoromethoxy)-1,1a-dihydro-6b*H*-cyclopropa[*b*][1]benzofuran-6b-yl]methyl}-7-(4-methyl-1*H*-imidazol-1-yl)-3,4-dihydro-2*H*-pyrido[1,2-*a*]pyrazine-1,6-dione;

2-{[4-fluoro-1a-methyl-5-(trifluoromethoxy)-1,1a-dihydro-6b*H*-cyclopropa[*b*][1]benzofuran-6b-yl]methyl}-7-(3-methyl-1*H*-1,2,4-triazol-1-yl)-3,4-dihydro-2*H*-pyrido[1,2-*a*]pyrazine-1,6-dione;

2-{[(1a*S*,6b*S*)-4-fluoro-1a-methyl-5-(trifluoromethoxy)-1,1a-dihydro-6b*H*-cyclopropa[*b*][1]benzofuran-6b-yl]methyl}-7-(3-methyl-1*H*-1,2,4-triazol-1-yl)-3,4-dihydro-2*H*-pyrido[1,2-*a*]pyrazine-1,6-dione;

2-{[(1a*R*,6b*R*)-4-fluoro-1a-methyl-5-(trifluoromethoxy)-1,1a-dihydro-6b*H*-cyclopropa[*b*][1]benzofuran-6b-yl]methyl}-7-(3-methyl-1*H*-1,2,4-triazol-1-yl)-3,4-dihydro-2*H*-pyrido[1,2-*a*]pyrazine-1,6-dione;

2-{[(1a*S*,6b*S*)-4-chloro-1a-methyl-5-(trifluoromethyl)-1,1a-dihydro-6b*H*-cyclopropa[*b*][1]benzofuran-6b-yl]methyl}-7-(4-methyl-1*H*-imidazol-1-yl)-3,4-dihydro-2*H*-pyrido[1,2-*a*]pyrazine-1,6-dione;

2-{[(1a*R*,6b*R*)-4-chloro-1a-methyl-5-(trifluoromethyl)-1,1a-dihydro-6b*H*-cyclopropa[*b*][1]benzofuran-6b-yl]methyl}-7-(4-methyl-1*H*-imidazol-1-yl)-3,4-dihydro-2*H*-pyrido[1,2-*a*]pyrazine-1,6-dione;

2-{[(1a*S*,6b*S*)-5-(difluoromethoxy)-4-fluoro-1a-methyl-1,1a-dihydro-6b*H*-cyclopropa[*b*][1]benzofuran-6b-yl]methyl}-7-(4-methyl-1*H*-imidazol-1-yl)-3,4-dihydro-2*H*-pyrido[1,2-*a*]pyrazine-1,6-dione;

2-{[(1a*R*,6b*R*)-5-(difluoromethoxy)-4-fluoro-1a-methyl-1,1a-dihydro-6b*H*-cyclopropa[*b*][1]benzofuran-6b-yl]methyl}-7-(4-methyl-1*H*-imidazol-1-yl)-3,4-dihydro-2*H*-pyrido[1,2-*a*]pyrazine-1,6-dione;

2-{[(1a*S*,6b*S*)-4-fluoro-1a-methyl-5-(trifluoromethoxy)-1,1a-dihydro-6b*H*-cyclopropa[*b*][1]benzofuran-6b-yl]methyl}-7-[4-(hydroxymethyl)-1*H*-imidazol-1-yl]-3,4-dihydro-2*H*-pyrido[1,2-*a*]pyrazine-1,6-dione;

7-(4-methyl-1*H*-imidazol-1-yl)-2-{[(1a*S*,6b*S*)-1a-methyl-5-(trifluoromethyl)-1,1a-dihydro-6b*H*-cyclopropa[*b*][1]benzofuran-6b-yl]methyl}-3,4-dihydro-2*H*-pyrido[1,2-*a*]pyrazine-1,6-dione;

7-(4-methyl-1*H*-imidazol-1-yl)-2-{[(1a*R*,6b*R*)-1a-methyl-5-(trifluoromethyl)-1,1a-dihydro-6b*H*-cyclopropa[*b*][1]benzofuran-6b-yl]methyl}-3,4-dihydro-2*H*-pyrido[1,2-*a*]pyrazine-1,6-dione;

2-{[(1a*S*,6b*S*)-4-fluoro-1a-methyl-5-(trifluoromethyl)-1,1a-dihydro-6b*H*-cyclopropa[*b*][1]benzofuran-6b-yl]methyl}-7-(4-methyl-1*H*-imidazol-1-yl)-3,4-dihydro-2*H*-pyrido[1,2-*a*]pyrazine-1,6-dione;

2-{[(1a*R*,6b*R*)-4-fluoro-1a-methyl-5-(trifluoromethyl)-1,1a-dihydro-6b*H*-cyclopropa[*b*][1]benzofuran-6b-yl]methyl}-7-(4-methyl-1*H*-imidazol-1-yl)-3,4-dihydro-2*H*-pyrido[1,2-*a*]pyrazine-1,6-dione;

2-{[(1a*S*,6b*S*)-3-fluoro-1a-methyl-5-(trifluoromethyl)-1,1a-dihydro-6b*H*-cyclopropa[*b*][1]benzofuran-6b-yl]methyl}-7-(4-methyl-1*H*-imidazol-1-yl)-3,4-dihydro-2*H*-pyrido[1,2-*a*]pyrazine-1,6-dione;

2-{[(1a*R*,6b*R*)-3-fluoro-1a-methyl-5-(trifluoromethyl)-1,1a-dihydro-6b*H*-cyclopropa[*b*][1]benzofuran-6b-yl]methyl}-7-(4-methyl-1*H*-imidazol-1-yl)-3,4-dihydro-2*H*-pyrido[1,2-*a*]pyrazine-1,6-dione;

2-{[(1a*S*,6b*S*)-3-chloro-1a-methyl-5-(trifluoromethyl)-1,1a-dihydro-6b*H*-cyclopropa[*b*][1]benzofuran-6b-yl]methyl}-7-(4-methyl-1*H*-imidazol-1-yl)-3,4-dihydro-2*H*-pyrido[1,2-*a*]pyrazine-1,6-dione;

2-{[(1a*R*,6b*R*)-3-chloro-1a-methyl-5-(trifluoromethyl)-1,1a-dihydro-6b*H*-cyclopropa[*b*][1]benzofuran-6b-yl]methyl}-7-(4-methyl-1*H*-imidazol-1-yl)-3,4-dihydro-2*H*-pyrido[1,2-*a*]pyrazine-1,6-dione; or the

pharmaceutically acceptable salts thereof.

3. 2-{[(1aS,6bS)-4-Fluoro-1a-methyl-5-(trifluoromethoxy)-1,1a-dihydro-6bH-cyclopropa[b][1]benzofuran-6b-yl]methyl}-7-(4-methyl-1H-imidazol-1-yl)-3,4-dihydro-2H-pyrido[1,2-a]pyrazine-1,6-dione, or a pharmaceutically acceptable salt thereof.

4. 2-{[(1aR,6bR)-4-Fluoro-1a-methyl-5-(trifluoromethoxy)-1,1a-dihydro-6bH-cyclopropa[b][1]benzofuran-6b-yl]methyl}-7-(4-methyl-1H-imidazol-1-yl)-3,4-dihydro-2H-pyrido[1,2-a]pyrazine-1,6-dione, or a pharmaceutically acceptable salt thereof.

5. 2-{[(1aS,6bS)-3-Fluoro-1a-methyl-5-(trifluoromethoxy)-1,1a-dihydro-6bH-cyclopropa[b][1]benzofuran-6b-yl]methyl}-7-(4-methyl-1H-imidazol-1-yl)-3,4-dihydro-2H-pyrido[1,2-a]pyrazine-1,6-dione, or a pharmaceutically acceptable salt thereof.

6. 2-{[(1aR,6bR)-3-Fluoro-1a-methyl-5-(trifluoromethoxy)-1,1a-dihydro-6bH-cyclopropa[b][1]benzofuran-6b-yl]methyl}-7-(4-methyl-1H-imidazol-1-yl)-3,4-dihydro-2H-pyrido[1,2-a]pyrazine-1,6-dione, or a pharmaceutically acceptable salt thereof.

7. 2-{[(1aS,6bS)-4-Chloro-1a-methyl-5-(trifluoromethyl)-1,1a-dihydro-6bH-cyclopropa[b][1]benzofuran-6b-yl]methyl}-7-(4-methyl-1H-imidazol-1-yl)-3,4-dihydro-2H-pyrido[1,2-a]pyrazine-1,6-dione, or a pharmaceutically acceptable salt thereof.

8. 2-{[(1aR,6bR)-4-Chloro-1a-methyl-5-(trifluoromethyl)-1,1a-dihydro-6bH-cyclopropa[b][1]benzofuran-6b-yl]methyl}-7-(4-methyl-1H-imidazol-1-yl)-3,4-dihydro-2H-pyrido[1,2-a]pyrazine-1,6-dione, or a pharmaceutically acceptable salt thereof.

9. 2-(((1aS,6bS)-4-fluoro-1a-methyl-5-(trifluoromethyl)-1,1a-dihydro-6bH-cyclopropa[b]benzofuran-6b-yl)methyl)-7-(4-methyl-1H-imidazol-1-yl)-3,4-dihydro-2H-pyrido[1,2-a]pyrazine-1,6-dione, or a pharmaceutically acceptable salt thereof.

10. 2-(((1aR,6bR)-4-fluoro-1a-methyl-5-(trifluoromethyl)-1,1a-dihydro-6bH-cyclopropa[b]benzofuran-6b-yl)methyl)-7-(4-methyl-1H-imidazol-1-yl)-3,4-dihydro-2H-pyrido[1,2-a]pyrazine-1,6-dione, or a pharmaceutically acceptable salt thereof.

11. 2-(((1aS,6bS)-3-fluoro-1a-methyl-5-(trifluoromethyl)-1,1a-dihydro-6bH-cyclopropa[b]benzofuran-6b-yl)methyl)-7-(4-methyl-1H-imidazol-1-yl)-3,4-dihydro-2H-pyrido[1,2-a]pyrazine-1,6-dione, or a pharmaceutically acceptable salt thereof.

12. 2-(((1aR,6bR)-3-fluoro-1a-methyl-5-(trifluoromethyl)-1,1a-dihydro-6bH-cyclopropa[b]benzofuran-6b-yl)methyl)-7-(4-methyl-1H-imidazol-1-yl)-3,4-dihydro-2H-pyrido[1,2-a]pyrazine-1,6-dione, or a pharmaceutically acceptable salt thereof.

13. The compound according to any one of claims 1-12 or a pharmaceutically acceptable salt thereof, for use in reducing the production of amyloid beta (Aβ) proteins in a subject in need thereof.

14. A pharmaceutical composition comprising a compound of any one of claims 1 to 12, or a pharmaceutically acceptable salt thereof, and a pharmaceutically acceptable excipient.