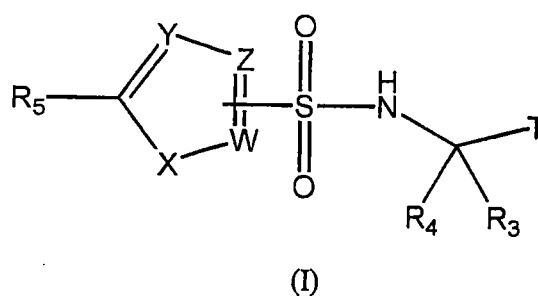


**ABSTRACT****FLUORO-AND TRIFLUOROALKYL-CONTAINING HETEROCYCLIC  
SULFONAMIDE INHIBITORS OF BETA AMYLOID PRODUCTION AND  
DERIVATIVES THEREOF**

Compounds of Formula (I),



are provided where T is CHO, COR<sub>8</sub>, or C(OH)R<sub>1</sub>R<sub>2</sub>; R<sub>1</sub> and R<sub>2</sub> are hydrogen, optionally substituted lower alkyl, CF<sub>3</sub>, optionally substituted alkenyl, or optionally substituted alkynyl; R<sub>3</sub> is hydrogen or optionally substituted lower alkyl; R<sub>4</sub> is (CF<sub>3</sub>)<sub>n</sub>alkyl, (CF<sub>3</sub>)<sub>n</sub>(substitutedalkyl), (CF<sub>3</sub>)<sub>n</sub>alkylphenyl, (CF<sub>3</sub>)<sub>n</sub>alkyl(substitutedphenyl), or (F)<sub>n</sub>cycloalkyl; n=1-3; R<sub>5</sub> is hydrogen, halogen, CF<sub>3</sub>, diene fused to Y when Y=C, or substituted diene fused to Y when Y=C; W, Y and Z are C, CR<sub>6</sub> or N where at least one of W, Y or Z are C; R<sub>6</sub> is hydrogen, halogen, or optionally substituted lower alkyl; X is O, S, SO<sub>2</sub>, or NR<sub>7</sub>; R<sub>7</sub> is hydrogen, optionally substituted lower alkyl, optionally substituted benzyl, or optionally substituted phenyl; and R<sub>8</sub> is lower alkyl, CF<sub>3</sub>, or optionally substituted phenyl. Methods of preparing and using these compounds for inhibiting beta amyloid production and for treatment of Alzheimer's Disease and Down's syndrome are also described.

No Figure