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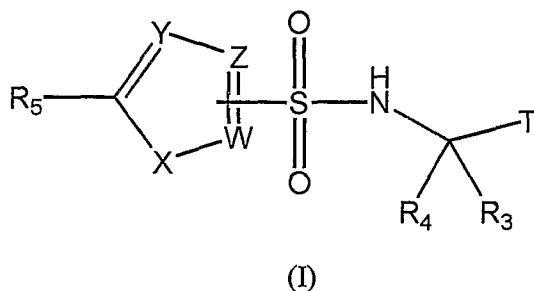
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(54) Title: FLUORO-AND TRIFLUOROALKYL-CONTAINING HETEROCYCLIC SULFONAMIDE INHIBITORS OF BETA AMYLOID PRODUCTION AND DERIVATIVES THEREOF



(57) Abstract: Compounds of Formula (I), are provided where T is CHO, COR₈, or C(OH)R₁R₂; R₁ and R₂ are hydrogen, optionally substituted lower alkyl, CF₃, optionally substituted alkenyl, or optionally substituted alkynyl; R₃ is hydrogen or optionally substituted lower alkyl; R₄ is (CF₃)_nalkyl, (CF₃)_n(substitutedalkyl), (CF₃)_nalkylphenyl, (CF₃)nalkyl(substitutedphenyl), or (F)_ncycloalkyl; n=1-3; R₅ is hydrogen, halogen, CF₃, diene fused to Y when Y=C, or substituted diene fused to Y when Y=C; W, Y and Z are C, CR₆ or N where at least one of W, Y or Z are C; R₆ is hydrogen, halogen, or optionally substituted lower alkyl; X is O, S, SO₂, or NR₇; R₇ is hydrogen, optionally substituted

lower alkyl, optionally substituted benzyl, or optionally substituted phenyl; and R₈ is lower alkyl, CF₃, 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.

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