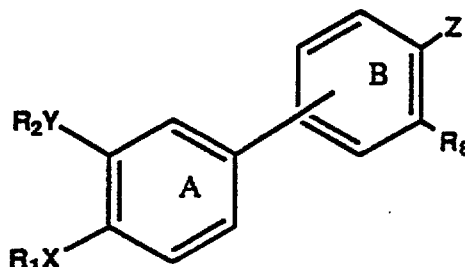


SUBSTITUTED BIPHENYL DERIVATIVES

ABSTRACT OF THE DISCLOSURE

A compound of the following structure:



5

wherein, when $R_8 = H$:

$R_1 = \text{alkyl, cycloalkyl, arylalkyl, aryl;}$

$R_2 = \text{cycloalkyl, aryl, C}_3\text{-C}_{10} \text{ alkyl;}$

10 $X, Y = O, S(O)_n, NH;$

$Z = CH_2OH, NHSO_2R_3, CHO, CO_2R_3, CONHR_4R_5, CN, COR_6, H, \text{halo,}$

$NHCN, NHCONR_4R_5, CONR_4OR_5, CONR_4NR_5R_6, 1\text{-tetrazole, } S(O)_nOH,$

$S(O)_nNR_3R_4, C=NOH, C(=N(OH)NH_2, OCONR_7R_6, P(O)(OR_4)_2,$

$NH_2, SH, OH, OS(O)_2R_3, C(O)CO_2R_3, C(O)CONR_3R_4, CH(OH)CO_2R_3,$

15 $CHFCO_2R_3, CF_2CO_2R_3, CH(OH)CONR_3R_4, CF_2CONR_3R_4, C=NNH_2,$

$C(=NOC(=O)R_3)R_4, C(=NNHC(=O)R_3)R_4, C(=NOH)R_3,$

$C(=NNR_3)R_4, NHC(=O)R_6 \text{ or } C(O)CONH_2;$

$R_3, R_4, R_5, R_6, R_7 = \text{hydrogen, alkyl, aryl, arylalkyl, cycloalkyl, or fluoroalkyl;}$

or a compound of Structure I, wherein:

20 $R_1 = \text{alkyl, cycloalkyl, arylalkyl, or aryl;}$

$R_2 = \text{cycloalkyl, aryl, or alkyl;}$

$X, Y = CH_2, O, S(O)_n, \text{ or } NH;$

$R_3, R_4, R_5, R_6, R_7 \text{ are each, independently, hydrogen, alkyl, aryl, arylalkyl, cycloalkyl, or fluoroalkyl;}$

25 $R_8 = CO_2R_3, CONR_3, \text{ or } R_8 \text{ and } Z \text{ are concatenated such that}$

$R_8Z = C(O)NHNHC(O), (CH_2)_mC(=W), V(CH_2)_mC(=W), \text{ or}$

$V_nCH=CH(CH_2)_nC(=W);$

where

$V = O, S(O)_n, NH;$