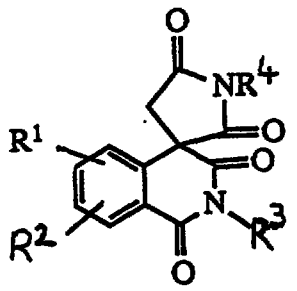
THIS SHEET HAS BEEN REPLACED

ABSTRACT

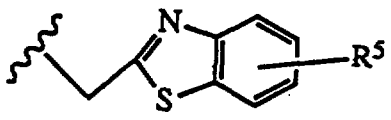
N'ALKYL-SPIRO-ISOQUINOLINE-PYRROLIDINE TETRONES AND ANALOGS THEREOF USEFUL AS ALDOSE REDUCTASE INHIBITORS

This invention relates to N'-alkyl-spiro-isoquinoline-pyrrolidine tetrones of formula



(I)

wherein R^1 and R^2 are independently hydrogen, alkyl containing to 1 to 6 carbon atoms, halogen, lower alkoxy containing 1 to 6 carbon atoms, trifluoromethyl, nitro, aryl or aryl(lower alkyl)oxy wherein aryl contains 6 - 10 carbon atoms and lower alkyl contains 1 to 6 carbon atoms; R^3 is hydrogen, lower alkyl containing 1 to 6 carbon atoms, aryl, aryl(lower alkyl) or halogen substituted aryl(lower alkyl) wherein aryl contains 6 to 10 carbon atoms and lower alkyl contains 1 to 6 carbon atoms, or benzothiazole of structural formula



(Ia)

This Sheet Has Been Replaced

THIS SHEET HAS BEEN REPLACED

wherein R^5 is hydrogen, halogen, alkyl containing 1 to 6 carbon atoms, lower alkoxy containing 1 to 6 carbon atoms, trifluoromethyl, nitro, aryl or aryl(lower alkyl)oxy wherein aryl contains 6 to 10 carbon atoms and lower alkyl contains 1 to 5 carbon atoms; and R^4 is alkyl containing 1 to 12 carbon atoms, aryl, aryl(loweralkyl) wherein aryl contains 6 to 10 carbon atoms and lower alkyl contains 1 to 6 carbon atoms, acyl, carboalkoxy, $-(CH_2)_nCO_2H$ or $-(CH_2)_nOH$, wherein n is 1 to 6. The compounds have pharmaceutical properties which render them beneficial for the prevention of treatment of diabetes mellitus associated complications.

This Sheet Has Been Replaced

