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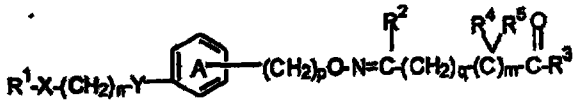
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(54) Title: OXYIMINOALKANOIC ACID DERIVATIVES WITH HYPOGLYCEMIC AND HYPOLIPIDEMIC ACTIVITY



(a)

(57) Abstract

To provide a novel oxyiminoalkanoic acid derivative which has excellent hypoglycemic and hypolipidemic actions and which is used for the prevention or treatment of diabetes mellitus, hyperlipemia, insulin insensitivity, insulin resistance and impaired glucose tolerance. A compound represented by formula (a) wherein R^1 is an optionally substituted hydrocarbon group or an optionally substituted heterocyclic group; X is a bond, –CO–, –CH(OH)– or a group represented by –NR^6– wherein R^6 is a hydrogen atom or an optionally substituted alkyl group; n is an integer of 1 to 3; Y is an oxygen atom, a sulfur atom, –SO–, –SO_2– or a group represented by –NR^7– wherein R^7 is a hydrogen atom or an optionally alkyl group; ring A is a benzene ring optionally having additional one to three substituents; p is an integer of 1 to 8; R^2 is a hydrogen atom, an optionally substituted hydrocarbon group or an optionally substituted heterocyclic group; q is an integer of 0 to 6; m is 0 or 1; R^3 is a hydroxy group, OR^8 (R^8 is an optionally substituted hydrocarbon group) or NR^9R^{10} (R^9 and R^{10} are the same or different groups which are selected from a hydrogen atom, an optionally substituted hydrocarbon group, an optionally substituted heterocyclic group or an optionally substituted acyl group or R^9 and R^{10} combine together to form a ring); R^4 and R^5 are the same or different groups which are selected from a hydrogen atom or an optionally substituted hydrocarbon group wherein R^4 may form a ring with R^2; provided that when R^1 is a ethoxymethyl, a C_{1-3} alkyl, phenyl or p–methoxyphenyl and q=m=0, R^3 is NR^9R^{10}; and provided that O–[2–chloro–4–(2–quinolylmethoxy)phenylmethyl]oxime and a methyl pyruvate of [2–chloro–4–(2–quinolylmethoxy)phenylmethyl]–2–iminoxypropionic acid are excluded; or a salt thereof.