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(71) Applicant *(for all designated States except US)*: CIBA-GEIGY AG [CH/CH]; Klybeckstrasse 141, CH-4002 Basle (CH).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: OFNER, Silvio [CH/CH]; Hauptstrasse 1, CH-4142 Münchenstein (CH). VEENSTRA, Siem, Jacob [NL/CH]; Laufenstrasse 29, CH-4053 Basle (CH).

(74) Common Representative: CIBA-GEIGY AG; Patentabteilung, Klybeckstrasse 141, CH-4002 Basle (CH).

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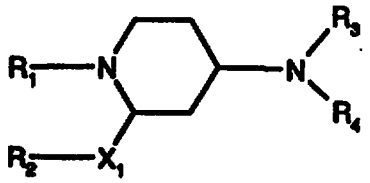
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(54) Title: 1-ACYL-4-ALIPHATYLAMINOPIPERIDINE COMPOUNDS

(57) Abstract



(I)

The invention relates to novel 1-acyl-4-aliphatylaminopiperidine compounds of formula (I), in which R_1 is a benzoyl, naphthoyl or cycloalkanoyl radical which is unsubstituted or substituted by lower alkyl, lower alkoxy, halogen and/or trifluoromethyl; R_2 is cycloalkyl or a phenyl or naphthyl radical which is unsubstituted or substituted by lower alkyl, lower alkoxy, halogen, nitro, cyano and/or trifluoromethyl; R_3 and R_4 together are lower alkylene or aza-, oxa- or thia-lower alkylene; or R_3 is lower alkyl, lower alkoxy-lower alkyl, di-lower alkylamino-lower alkyl or a radical of the formula $-(CH_2)_n-C(=O)-R_5$ (Ia); and R_4 is hydrogen, lower alkyl or a radical of the formula $-(CH_2)_n-C(=O)-R_5$ (Ia); R_5 is (i) hydrogen, alkyl or alkyl which is substituted by halogen, lower alkoxy, amino or amino substituted by lower alkyl, amino-lower alkyl, mono- or di-lower alkylaminoalkyl, lower alkanoyl, lower alkoxycarbonyl or lower alkylene or aza-, oxa- or thia-lower alkylene, (ii) hydroxyl, cycloalkoxy, lower alkoxy or lower alkoxy which is substituted by lower alkoxy, amino or amino substituted by lower alkyl, amino-lower alkyl, mono- or di-lower alkylamino-alkyl, lower alkanoyl, lower alkoxycarbonyl or lower alkylene or aza-, oxa- or thia-lower alkylene, or (iii) amino or amino substituted by lower alkyl, cycloalkyl, amino-lower alkyl, mono- or di-lower alkylaminoalkyl, lower alkanoyl, lower alkoxycarbonyl or lower alkylene or aza-, oxa- or thia-lower alkylene; X_1 is methyelene, ethylene, a direct bond, a free or ketalized carbonyl group or a free or etherified hydroxymethylene group and n is 0 or 1, and their salts, processes for the preparation of the compounds according to the invention, pharmaceutical compositions containing these and their use as pharmaceutical active ingredients.