

Title (en)
NOVEL ASYMMETRICALLY SUBSTITUTED XANTHINE DERIVATIVES, METHOD FOR PRODUCING THEM AND THEIR USE AS
MEDICAMENTS WITH AN ADENOSINE-ANTAGONISTIC EFFECT

Title (de)
NEUE UNSYMMETRISCH SUBSTITUIERTE XANTHIN-DERIVATE, VERFAHREN ZU IHRER HERSTELLUNG UND IHRE VERWENDUNG ALS
ARZNEIMITTEL MIT ADENOSINANTAGONISTISCHER WIRKUNG

Title (fr)
NOUVEAUX DERIVES DE XANTHINE A SUBSTITUTION ASYMETRIQUE, LEUR PROCEDE DE PREPARATION ET LEUR UTILISATION
COMME MEDICAMENTS A EFFET ANTAGONISTE DE L'ADENOSINE

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Application
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Priority

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Abstract (en)
[origin: DE19816857A1] 3,8-Disubstituted-xanthines (I) are new. They are prepared via new intermediates (IA). 3-alk(en or yn)yl-8-(alkyl or bridged cycloalkyl)-xanthines (I), as racemates, enantiomers, diastereomers and mixtures, and their addition salts are new: a or b = double bond; R<1> = H; 1-6C alkyl; 3-6C alkenyl; or 3-6C alkynyl; R<2> = 1-6C alkyl, 3-6C alkenyl or 3-6C alkynyl substituted with OR<6>, SO₂R<6>, OCOR<9>, COOR<9>, NR<7>R<8>, O(CH₂)₂-NR<7>R<8>, CONR<7>R<8>, OCH₂CONR<7>R<8> or O(CH₂)₂-CONR<7>R<8> or optionally substituted with C-bonded 5-6 membered heterocyclic ring containing 1-4 O, N and/or S atoms and optionally substituted with 1-4C alkyl or benzyl; R<3> = 1-6C alkyl optionally substituted with OH; or norbornanyl, norbornenyl, adamantyl or noradamantyl optionally substituted with Me or OH; R<4> and R<5> (not present simultaneously) = H or benzyl optionally substituted with 1-3 OMe; R<6> = H or 3-6C cycloalkyl or 1-4C alkyl optionally substituted with OR<9> or OCOR<9>; R<7> and R<8> = H; SO₂R<6>; 1-4C alkyl; COR<9>; or COOR<9>; or NR<7>R<8> forms a 5-6 membered ring containing a further N atom or an O atom and optionally substituted with 1-4C alkyl or benzyl; compounds are excluded when R<1> = R<2>. Independent claims are also included for the following: (1) the preparation of compounds (I); and (2) the intermediates of formula (IA): R<2>' = H or 1-6C alkyl, 3-6C alkenyl or 3-6C alkynyl substituted with CN, halo, 1-6C alkoxy, CH₃SO₂O, CF₃SO₂O or p-tosyloxy.

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IPC 8 full level
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