

Title (en)
QUADRATIC ACID II DERIVATIVES

Title (de)
QUADRATSÄUREDERIVATE II

Title (fr)
DERIVES D'ACIDE QUADRATIQUE II

Publication
EP 1910312 A1 20080416 (DE)

Application
EP 06762312 A 20060630

Priority

- EP 2006006379 W 20060630
- DE 102005035742 A 20050729

Abstract (en)

[origin: DE102005035742A1] Cyclobut-3-ene-1,2-dione derivatives (I) and their derivatives, solvates, salts, tautomers and stereoisomers, including mixtures in all proportions, are new. Cyclobut-3-ene-1,2-dione derivatives of formula (I) and their pharmaceutically useful derivatives, solvates, salts, tautomers and stereoisomers, including mixtures in all proportions, are new. R : fused heterocyclic residue of formula (i)-(viii); X : (CH₂)_n, CHA, NH, NA or 3-6C cycloalkane-1,1-diyl; X' : (CH₂)_n; R₁>H, A, halo, COA, cyano, COOH, COOA or CONH₂; R₂>OH, OA, NH₂, NHA, NAA', halo, A, CONH₂, CONHA, CONAA', CONHAr, CONHHet, SO₂NH₂, SO₂NHA, SO₂NAA', SO₂NHAr, SO₂NHHet, NHSO₂A, NHSO₂Ar, NHSO₂Het, NHCOA, NHCOAr or NHCOHet; R₃>H, thiol, A, COOH, COOA, CONH₂, CONHA or CONAA'; R₄>H, A, COOA, CONH₂, CH₂NH₂, CH₂NHA or CH₂NAA'; R₅>H, A or COA; R₆>H, A, hydroxy, NH₂, NHA or NAA'; Ar : phenyl, naphthyl or biphenyl (all optionally substituted by 1-5 A, OA, hydroxy, thiol, SA, halo, nitro, cyano, (CH₂)_nAr', (CH₂)_nCOOH, (CH₂)_nCOOA, CHO, COA, SO₂A, CONH₂, SO₂NH₂, CONHA, CONAA', SO₂NHA, SO₂NAA', NH₂, NHA, NAA', OCONH₂, OCONHA, OCONAA', NHCOA, NHCOOA, NACOOA, NHSO₂OA, NASO₂OA, NHCONH₂, NACONH₂, NHCONHA, NACONHA, NHCONAA', NACONAA' and/or NHCO(CH₂)_nNH₂); Ar' : phenyl, naphthyl or biphenyl (all optionally substituted by 1-3 A, OA, hydroxy, thiol, SA, halo, nitro, cyano, (CH₂)_nphenyl, (CH₂)_nCOOH, (CH₂)_nCOOA, CHO, COA, SO₂A, CONH₂, SO₂NH₂, CONHA, CONAA', SO₂NHA, SO₂NAA', NH₂, NHA, NAA', OCONH₂, OCONHA, OCONAA', NHCOA, NHCOOA, NACOOA, NHSO₂OA, NASO₂OA, NHCONH₂, NACONH₂, NHCONHA, NACONHA, NHCONAA' and/or NACONAA'); Het : mono- or bi-cyclic, saturated, unsaturated or aromatic heterocycle with 1-4 O, N and/or S (optionally substituted by 1-3 A, OA, hydroxy, thiol, SA, halo, nitro, cyano, (CH₂)_nAr', (CH₂)_nCOOH, (CH₂)_nCOOA, CHO, COA, SO₂A, CONH₂, SO₂NH₂, CONHA, CONAA', SO₂NHA, SO₂NAA', NH₂, NHA, NAA', OCONH₂, OCONHA, OCONAA', NHCOA, NHCOOA, NACOOA, NHSO₂OA, NASO₂OA, NHCONH₂, NACONH₂, NHCONHA, NACONHA, NHCONAA', NACONAA', =S, =NH, =NA and/or =O); Het 1>mononuclear saturated heterocycle with 1-2 N and/or O, (optionally substituted by 1 or 2 A, OA, hydroxy, halo and/or =O); A and A' : 1-10C alkyl (optionally substituted by 1-7 fluoro and/or chloro); halo : fluoro, chloro, bromo or iodo; m : 2-5; and n : 0-2. Independent claims are included for the following: (1) preparation of (I); and (2) kit containing, in separate parts, (I) and a second pharmaceutical. [Image] [Image] [Image] [Image] ACTIVITY : Cytostatic; Antidiabetic; Anorectic; Antilipemic; Hypotensive; Cardiant; Nephrotropic; Antiinflammatory; Antithrombotic; Ophthalmological; Antibacterial; Nootropic; Auditory; Neuroprotective; Antiarteriosclerotic. MECHANISM OF ACTION : Kinase inhibitor; Serine-threonine kinase inhibitor.

IPC 8 full level

C07D 235/06 (2006.01); **A61K 31/343** (2006.01); **A61K 31/4188** (2006.01); **A61P 35/00** (2006.01); **C07D 209/80** (2006.01); **C07D 231/56** (2006.01); **C07D 277/64** (2006.01); **C07D 307/82** (2006.01); **C07D 471/04** (2006.01); **C07D 513/04** (2006.01)

CPC (source: EP US)

A61P 1/04 (2017.12 - EP); **A61P 1/16** (2017.12 - EP); **A61P 3/00** (2017.12 - EP); **A61P 3/04** (2017.12 - EP); **A61P 3/06** (2017.12 - EP); **A61P 3/10** (2017.12 - EP); **A61P 7/00** (2017.12 - EP); **A61P 7/04** (2017.12 - EP); **A61P 9/00** (2017.12 - EP); **A61P 9/04** (2017.12 - EP); **A61P 9/10** (2017.12 - EP); **A61P 9/12** (2017.12 - EP); **A61P 9/14** (2017.12 - EP); **A61P 11/00** (2017.12 - EP); **A61P 13/00** (2017.12 - EP); **A61P 13/12** (2017.12 - EP); **A61P 17/00** (2017.12 - EP); **A61P 17/02** (2017.12 - EP); **A61P 17/06** (2017.12 - EP); **A61P 19/02** (2017.12 - EP); **A61P 25/00** (2017.12 - EP); **A61P 25/08** (2017.12 - EP); **A61P 25/22** (2017.12 - EP); **A61P 25/28** (2017.12 - EP); **A61P 27/02** (2017.12 - EP); **A61P 27/06** (2017.12 - EP); **A61P 27/12** (2017.12 - EP); **A61P 27/16** (2017.12 - EP); **A61P 29/00** (2017.12 - EP); **A61P 31/00** (2017.12 - EP); **A61P 31/04** (2017.12 - EP); **A61P 35/00** (2017.12 - EP); **A61P 35/02** (2017.12 - EP); **A61P 35/04** (2017.12 - EP); **A61P 43/00** (2017.12 - EP); **C07D 209/80** (2013.01 - EP US); **C07D 231/56** (2013.01 - EP US); **C07D 235/04** (2013.01 - EP US); **C07D 235/06** (2013.01 - EP US); **C07D 249/18** (2013.01 - EP US); **C07D 277/62** (2013.01 - EP US); **C07D 277/64** (2013.01 - EP US); **C07D 307/82** (2013.01 - EP US); **C07D 471/04** (2013.01 - EP US); **C07D 513/04** (2013.01 - EP US)

Citation (search report)

See references of WO 2007014608A1

Citation (examination)

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DE 102005035742 A1 20070201; AR 054877 A1 20070725; AU 2006275161 A1 20070208; CA 2616669 A1 20070208; EP 1910312 A1 20080416; JP 2009505958 A 20090212; US 2008234266 A1 20080925; WO 2007014608 A1 20070208

DOCDB simple family (application)

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