

Title (en)  
USE OF THIADIAZOLE UREA DERIVATIVES

Title (de)  
VERWENDUNG VON THIADIAZOLHARNSTOFFDERIVATEN

Title (fr)  
UTILISATION DE DERIVES DE THIADIAZOLE-UREE

Publication  
**EP 1720846 A1 20061115 (DE)**

Application  
**EP 05701263 A 20050131**

Priority  
• EP 2005000908 W 20050131  
• DE 102004009933 A 20040226

Abstract (en)  
[origin: DE102004009933A1] 1,3,4-Thiadiazole derivatives (I) are used to prepare medicaments for preventing or treating diseases in which the inhibition, regulation or modulation of kinase signal transduction plays a role. 1,3,4-Thiadiazole derivatives of formula (I) and their derivatives, solvates, salts and stereoisomers are used to prepare medicaments for preventing or treating diseases in which the inhibition, regulation or modulation of kinase signal transduction plays a role. Ar 1>phenyl, naphthyl, biphenyl or Het, all optionally substituted with 1-4 of R 1>; Ar 2>phenyl, naphthyl, biphenyl or Het, all optionally substituted with 1-4 of R 2>; Y : O, S, CHNO 2, C(CN) 2 or NR 4>; Z : O, S, CH 2(CH 2) n, (CH 2) nCHA, CHA(CH 2) n; CO, CHOH, (CHA) nO, (CH 2) nO, O(CHA) n, O(CH 2) n, (CH 2) nS, S(CH 2) n, (CH 2) nNH, NH(CH 2) n, (CH 2) nNA, NA(CH 2) n, CHHal or C(Hal) 2; Het : mono- or bicyclic heteroaryl with 1-4 N, O and/or S atoms; R 1>, R 2>A, Ar', OR 3>, SR 3>, OAr', SAR', N(R 3>) 2, NHA', Hal, NO 2, CN, (CH 2) nCOOR 3>, (CH 2) nCON(R 3>) 2, COR 3>, SO mA, SO mAr', NHCOA, NHCOAr', NHSO mA, NHSO mAr', SO mN(R 3>) 2, O(CH 2) nN(R 3>) 2, O(CH 2) nNHR 3>, O(CH 2) nNA 2, O(CH 2) nC(Me) 2(CH 2) nN(R 3>) 2, NH(CH 2) n(CH 2) 2(CH 2) nN(R 3>) 2, O(CH 2) nN(R 3>)SO mA, O(CH 2) nN(R 3>)SO mN(R 3>)A, O(CH 2) nN(R 3>)SO mAr', (CH 2) nN(R 3>)SO mA, (CH 2) nN(R 3>)SO mN(R 3>)A, (CH 2) nN(R 3>)SO mAr', O(CH 2) nSO mA, O(CH 2) nSO mN(R 3>)A, O(CH 2) nSO mAr', (CH 2) nSO mA, (CH 2) nSO mN(R 3>)A, (CH 2) nSO mAr', NH(CH 2) nNH 2, NH(CH 2) nNHA, NH(CH 2) nNA 2, NA(CH 2) nNH 2, NA(CH 2) nNHA, NA(CH 2) nNA 2, O(CH 2) nHet 1> or Het 1>; R 3>H, A or (CH 2) nAr'; R 4>H, CN, OH, A, (CH 2) nAr', COR 3>, COAr', SO mA or SO mAr'; Ar' : phenyl optionally substituted with 1-5 of A, Ph, OH, OA, SH, SA, OPh, SPh, NH 2, NHA, NA 2, NHPH, Hal, NO 2, (CH 2) nCOOH, (CH 2) nCOOA, (CH 2) nCONH 2, (CH 2) nCONHA, CHO, COA, SO mA, SO mAPh, NHCOA, NHCOPh, NHSO 2A, NHSO 2Ph or SO 2NH 2; Ph : phenyl optionally substituted with 1-3 of A, Hal, CN, COOR (R is not defined), COOH, NH 2, NO 2, OH or OA; Het 1>monocyclic saturated heterocycl with 1-4 N, O and/or S atoms, optionally substituted with 1-3 of Hal, A, OA, (CH 2) nOH, (CH 2) nHal, NH 2, =NH, =NOH, =NOA and/or =O; A : 1-10C alkyl or haloalkyl; Hal : F, Cl, Br or I; n : 0-5; m : 0-2. Independent claims are also included for: (1) new compounds (I), namely 1-(2-methoxy-5-trifluoromethyl-phenyl)-3-(5-pyridin-4-ylmethyl)-[1,3,4]thiadiazol-2-yl]-urea, 1-(5-chloro-2-methoxy-4-methyl-phenyl)-3-[5-(3,4-dimethoxybenzyl)-[1,3,4]thiadiazol-2-yl]-urea, 1-[5-(3,4-dimethoxybenzyl)-[1,3,4]thiadiazol-2-yl]-3-(3-trifluoromethoxy-phenyl)-urea, 1-[5-(1-phenyl-ethyl)-[1,3,4]thiadiazol-2-yl]-3-(3-trifluoromethylsulfonyl-phenyl)-urea, 1-[5-(3,4-dimethoxy-benzyl)-[1,3,4]thiadiazol-2-yl]-3-(2-methoxy-5-trifluoromethyl-phenyl)-urea, 1-[5-(1-phenyl-ethyl)-(1,3,4]thiadiazol-2-yl]-3-p-tolyl-urea, 1-(2-methoxy-5-methyl-phenyl)-3-[5-(1-phenyl-ethyl)-[1,3,4]thiadiazol-2-yl]-urea, 1-(3-chloro-4-methyl-phenyl)-3-(5-(1-phenyl-ethyl)-[1,3,4]thiadiazol-2-yl)-urea, 1-(5-chloro-2-methyl-phenyl)-3-[5-(1-phenyl-ethyl)-[1,3,4]thiadiazol-2-yl]-urea, 1-(3-chloro-2-methyl-phenyl)-3-[5-(1-phenyl-ethyl)-[1,3,4]thiadiazol-2-yl]-urea, 1-(5-chloro-2-methoxy-phenyl)-3-[5-(1-phenyl-ethyl)-[1,3,4]thiadiazol-2-yl]-urea, 1-[5-(1-phenyl-ethyl)-[1,3,4]thiadiazol-2-yl]-3-(3-trifluoromethyl-phenyl)-urea, 1-[5-(1-phenyl-ethyl)-[1,3,4]thiadiazol-2-yl]-3-(4-trifluoromethyl-phenyl)-urea, 1-[5-(3,4-dimethoxy-benzyl)-[1,3,4]thiadiazol-2-yl]-3-(2-methoxy-phenyl)-urea, 1-[5-(1-phenyl-ethyl)-[1,3,4]thiadiazol-2-yl]-3-(4-trifluoromethoxy-phenyl)-urea, 1-(4-fluoro-3-trifluoromethyl-phenyl)-3-[5-(1-phenyl-ethyl)-[1,3,4]thiadiazol-2-yl]-urea, 1-(4-chloro-3-trifluoromethyl-phenyl)-3-[5-(1-phenyl-ethyl)-[1,3,4]thiadiazol-2-yl]-urea, 1-[5-(2,3-dimethoxy-benzyl)-[1,3,4]thiadiazol-2-yl]-3-(4-trifluoromethoxy-phenyl)-urea, 1-[5-(2,3-dimethoxy-benzyl)-[1,3,4]thiadiazol-2-yl]-3-(2-trifluoromethoxy-phenyl)-urea, 1-(5-chloro-2,4-dimethoxy-phenyl)-3-[5-(3,4-dimethoxy-benzyl)-[1,3,4]thiadiazol-2-yl]-urea, 1-(2,4-dimethoxy-phenyl)-3-[5-(1-phenyl-ethyl)-[1,3,4]thiadiazol-2-yl]-urea, 1-(3-chloro-4-methoxy-phenyl)-3-[5-(1-phenyl-ethyl)-[1,3,4]thiadiazol-2-yl]-urea, 1-[2-(2-dimethylamino-ethoxy)-5-trifluoromethyl-phenyl]-3-[5-(1-phenyl-ethyl)-[1,3,4]thiadiazol-2-yl]-urea; (2) a process for preparing the new compounds (I); (3) kit comprising a compound (I) and another drug in separate packaging. [Image] ACTIVITY : Cytostatic; Antipsoriatic; Gynecological; Antiinflammatory; Vulnerary; Antiarthritic; Antibacterial; Antiulcer; Virucide; Immunosuppressive; Anti-HIV. No biological data given. MECHANISM OF ACTION : Kinase inhibitor.

IPC 8 full level  
**A61K 31/433** (2006.01); **A61K 31/4439** (2006.01); **C07D 285/135** (2006.01); **C07D 417/06** (2006.01); **C07D 417/12** (2006.01); **C07D 285/12** (2006.01)

CPC (source: EP US)  
**A61P 13/08** (2017.12 - EP); **A61P 15/08** (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 29/00** (2017.12 - EP); **A61P 31/00** (2017.12 - EP); **A61P 31/04** (2017.12 - EP); **A61P 31/16** (2017.12 - EP); **A61P 35/00** (2017.12 - EP); **A61P 37/00** (2017.12 - EP); **A61P 37/02** (2017.12 - EP); **A61P 43/00** (2017.12 - EP); **C07D 285/135** (2013.01 - EP US); **C07D 417/06** (2013.01 - EP US); **C07D 417/12** (2013.01 - EP US)

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