



(51) International Patent Classification:

C07D 401/14 (2006.01) C07D 495/04 (2006.01)
C07D 413/14 (2006.01) C07D 519/00 (2006.01)
C07D 417/14 (2006.01) A61K 31/519 (2006.01)
C07D 471/04 (2006.01) A61P 25/00 (2006.01)
C07D 491/048 (2006.01)

(21) International Application Number:

PCT/EP2012/072150

(22) International Filing Date:

8 November 2012 (08.11.2012)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

61/557,874 9 November 2011 (09.11.2011) US

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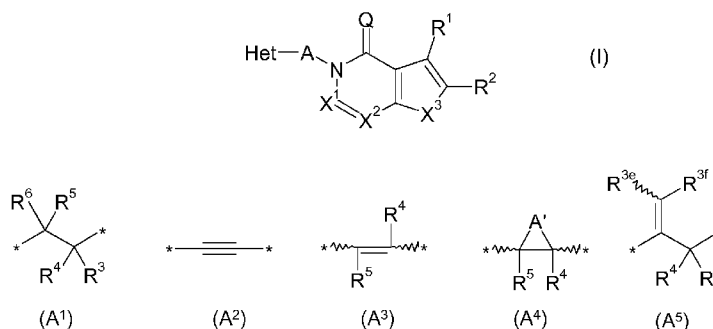
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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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(54) Title: INHIBITORS OF PHOSPHODIESTERASE TYPE 10A



(57) Abstract: The present invention relates to novel compounds of the formula (I) which are inhibitors of phosphodiesterase type 10A and to their use for the manufacture of a medicament and which thus are suitable for treating or controlling of medical disorders selected from neurological disorders and psychiatric disorders, for ameliorating the symptoms associated with such disorders and for reducing the risk of such disorders. wherein Q is O or S, X¹ is N or CH, X² is N or C-R⁷; X³ is O, S, -X⁵=C(R⁸)-, where C(R⁸) is bound to the carbon atom which carries R², or -X⁵=C(R⁹)-, where X⁵ is bound to the carbon atom which carries R²; X⁴ is N or C-R⁹; X⁵ is N; Het is selected from optionally substituted phenyl, monocyclic hetaryl and fused bicyclic hetaryl; R¹ is selected inter alia from hydrogen, halogen, OH, C₁-C₄-alkyl, trimethylsilyl, C₁-C₄-alkylsulfanyl, C₁-C₄-alkoxy-C₁-C₄-alkyl, C₁-C₄-alkoxy, C₁-C₄-alkoxy-C₁-C₄-alkoxy, the moiety Y¹-Cyc¹; R² is selected inter alia from hydrogen, halogen, OH, C₁-C₄-alkyl, trimethylsilyl, C₁-C₄-alkoxy-C₁-C₄-alkyl, C₁-C₄-alkoxy, C₁-C₄-alkoxy-C₁-C₄-alkoxy, C₂-C₄-alkenyloxy, etc; A represents one of the following groups A¹, A², A³, A⁴ or A⁵; where * indicates the points of attachment to Het and to the nitrogen atom, respectively; and where R³ to R⁹, R^{3e}, R^{3f}, A¹, Y¹ and Cyc¹ are defined in the claims.

WO 2013/068470 A1



Published:

— *with international search report (Art. 21(3))*