

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
14 December 2006 (14.12.2006)

PCT

(10) International Publication Number
WO 2006/132811 A3

(51) International Patent Classification:

C07D 333/36 (2006.01) **C07C 311/00** (2006.01)
C07D 213/75 (2006.01) **A61K 31/381** (2006.01)
C07D 237/04 (2006.01) **A61K 31/44** (2006.01)
C07D 409/10 (2006.01) **A61P 25/00** (2006.01)
C07D 257/04 (2006.01)

(21) International Application Number:

PCT/US2006/020204

(22) International Filing Date: 25 May 2006 (25.05.2006)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

05380117.1	6 June 2005 (06.06.2005)	EP
05380187.4	18 August 2005 (18.08.2005)	EP
60/724,206	6 October 2005 (06.10.2005)	US

(71) Applicant (for all designated States except US): **ELI LILLY AND COMPANY** [US/US]; Lilly Corporate Center, Indianapolis, Indiana 46285 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **CASTANO MANSANET, Ana, Maria** [ES/ES]; Lilly, S. A., Avenida De La Industria 30, E-28100 Alcobendas (ES). **CORDIER, Frederic, Laurent** [ES/ES]; Lilly, S. A., Avenida De La Industria 30, E-28100 Alcobendas (ES). **DOMINGUEZ-MANZANARES, Esteban** [ES/ES]; Lilly, S. A., Avenida De La Industria 30, E-28100 Alcobendas (ES). **HONG, Jian, Eric** [CN/US]; 881 Ursa Lane, Foster City, California 94404 (US). **HORNBACK, William, Joseph** [US/US]; 10063 Bent Tree Lane, Fishers, Indiana 46037 (US). **JIANG, Delu** [CN/US]; 14438 Chariot Whisper Drive, Westfield, Indiana 46074 (US).

(74) Agents: **COMBS, Tonya, L.** et al.; ELI LILLY AND COMPANY, P. O. Box 6288, Indianapolis, Indiana 46206-6288 (US).

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

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))

Published:

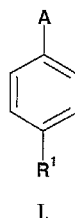
- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the international search report:

1 February 2007

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: AMPA RECEPTOR POTENTIATORS



(I)

(57) Abstract: The present invention relates to AMPA receptor potentiators of Formula (I), formulations comprising them, methods for their use, and intermediates useful for their preparation.

WO 2006/132811 A3