(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
20 January 2011 (20.01.2011)

PCT

(10) International Publication Number
WO 2011/006573 A1

(51) International Patent Classification:
A61K 31/53 (2006.01) *A61K 45/06* (2006.01)
A61K 31/155 (2006.01) *A61P 9/10* (2006.01)

(21) International Application Number:
PCT/EP2010/003696

(22) International Filing Date:
18 June 2010 (18.06.2010)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0954978 17 July 2009 (17.07.2009) FR

(71) Applicant *(for all designated States except US)*: **MERCK PATENT GMBH** [DE/DE]; Frankfurter Strasse 250, 64293 Darmstadt (DE).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **MESANGEAU, Didier** [FR/FR]; 5 rue Auguste Renoir, F-77380 Combs la Ville (FR). **CRAVO, Daniel** [FR/FR]; 123, Avenue Jules Ferry, F-78500 Sartrouville (FR). **LEVERVE, Xavier** [FR/FR]; 226 rue de l'Eglise, F-38660 La Terrasse (FR).

(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, 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, PE, PG, PH, PL, PT, RO, RS, RU, 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, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, 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, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

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

— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*

WO 2011/006573 A1

(54) Title: COMBINATION OF A SODIUM-PROTON EXCHANGER INHIBITOR AND OF A DIHYDRO-1,3,5-TRIAZINE AMINE DERIVATIVE

(57) Abstract: The invention relates to a combination of a sodium-proton exchanger inhibitor and of a dihydro-1,3,5-triazine amine derivative which is useful for the treatment and/or prevention of pathologies induced by ischaemia and/or reperfusion, especially cardiac and renal complications.