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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
3 June 2011 (03.06.2011)

PCT

(10) International Publication Number
WO 2011/064350 A1

(51) International Patent Classification:
A61K 31/192 (2006.01) *A61P 1/16* (2006.01)
A61K 31/216 (2006.01)

(21) International Application Number:
PCT/EP2010/068346

(22) International Filing Date:
26 November 2010 (26.11.2010)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
09306146.3 26 November 2009 (26.11.2009) EP

(71) Applicant *(for all designated States except US)*: **GENFIT** [FR/FR]; Parc Eurasanté - Lille Métropole, 885 avenue Eugène Avinée, F-59120 Loos (FR).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **DARTEIL, Raphaël** [FR/FR]; 17, rue Saint François, F-59000 Lille (FR). **HANF, Rémy** [FR/FR]; 10 rue Saint André, F-59000 Lille (FR). **HUM, Dean** [CA/FR]; 38, Parc Saint Georges, F-59910 Bondues (FR).

(74) Agents: **SEKHRI, Redha** et al.; Becker & Associes, 25, rue Louis le Grand, F-75002 Paris (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, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

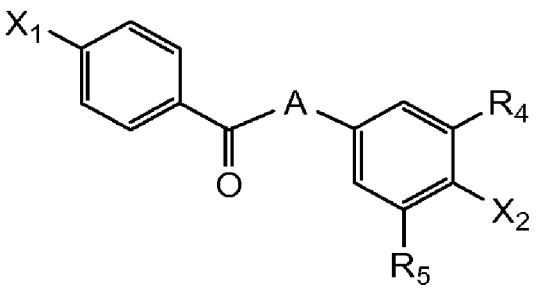
— *of inventorship (Rule 4.17(iv))*

Published:

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

— *with sequence listing part of description (Rule 5.2(a))*

(54) **Title**: USE OF 1,3-DIPHENYLPROP-2-EN-1-ONE DERIVATIVES FOR TREATING LIVER DISORDERS



(I)

(57) **Abstract**: The invention provides 1,3-diphenylprop-2-en-1-one derivatives and pharmaceutical compositions comprising the same for treating liver disorders, in particular those requiring the reduction of plasma level of biochemical markers such as aminotransferases. The 1,3-diphenylprop-2-en-1-one derivatives of General Formula (I) have hepatoprotective properties and can be used in methods for treating liver disorders involving the pathological disruption, inflammation, degeneration, and/or proliferation of liver cells, such as liver fibrosis or fatty liver disease.

WO 2011/064350 A1