

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

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
1 October 2009 (01.10.2009)

PCT

(10) International Publication Number
WO 2009/118137 A1

(51) International Patent Classification:
G01N 33/68 (2006.01) **C12Q 1/37** (2006.01)

(21) International Application Number:
PCT/EP2009/002091

(22) International Filing Date:
21 March 2009 (21.03.2009)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
08290285.9 26 March 2008 (26.03.2008) EP

(71) Applicant (for all designated States except US):
SANOFI-AVENTIS [FR/FR]; 174 Avenue de France,
F-75013 Paris (FR).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **GEBAUER, Mathias**; c/o Sanofi-Aventis Deutschland GmbH, 65926 Frankfurt am Main (DE). **MICHAELIS, Martin**; c/o Sanofi-Aventis Deutschland GmbH, 65926 Frankfurt am Main (DE). **DING-PFENNIGDORFF, Danping**; c/o Sanofi-Aventis Deutschland GmbH, 65926 Frankfurt am Main (DE). **SCHULTE, Anke, M.**; c/o Sanofi-Aventis Deutschland GmbH, 65926 Frankfurt am Main (DE). **METZ-WEIDMANN, Christiane**; c/o Sanofi-Aventis Deutschland GmbH, 65926 Frankfurt am Main (DE).

(74) Agent: **KÖRNER, Kathrin**; Sanofi-aventis Deutschland GmbH, Industriepark Höchst, Geb. K 801, 65926 Frankfurt (DE).

(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, 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, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, 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, 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, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, 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))
- with sequence listing part of description (Rule 5.2(a))

(54) Title: USE OF CATHEPSIN C

(57) Abstract: Present invention concerns the use of Cathepsin C. Other aspects of the invention concern methods for screening pharmaceuticals, for diagnosing pain susceptibility and for the treatment of pain.



WO 2009/118137 A1