

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
23 April 2009 (23.04.2009)

PCT

(10) International Publication Number
WO 2009/049370 A1

(51) International Patent Classification:

<i>C07H 11/00</i> (2006.01)	<i>C07H 17/02</i> (2006.01)
<i>A61P 31/00</i> (2006.01)	<i>A61P 7/02</i> (2006.01)
<i>C07H 15/04</i> (2006.01)	<i>C07H 3/04</i> (2006.01)
<i>A61K 31/7016</i> (2006.01)	<i>C07J 9/00</i> (2006.01)
<i>A61P 35/00</i> (2006.01)	<i>A61P 9/00</i> (2006.01)
<i>C07H 15/24</i> (2006.01)	<i>C07H 3/06</i> (2006.01)
<i>A61K 31/702</i> (2006.01)	<i>A61P 29/00</i> (2006.01)
<i>A61P 35/04</i> (2006.01)	<i>C07H 5/04</i> (2006.01)

(21) International Application Number:

PCT/AU2008/001535

(22) International Filing Date: 16 October 2008 (16.10.2008)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

2007905680 16 October 2007 (16.10.2007) AU

(71) Applicant (for all designated States except US): **PROGEN PHARMACEUTICALS LIMITED** [AU/AU]; 16 Benson Street, Toowong, Queensland 4066 (AU).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **FERRO, Vito** [AU/AU]; 8 Rani Close, Mt Ommaney, Queensland 4074 (AU). **KAROLI, Tomislav** [AU/GB]; 4 Terrace View, Horsecastles, Sherborne Dorset DT9 3HE (GB). **LIU, Ligong** [AU/AU]; 33 Manor Street, Eight Mile Plains, Queensland 4113 (AU). **HANDLEY, Paul Newton** [AU/AU]; 6/210 Government Road, Forest Lake,

Queensland 4078 (AU). **JOHNSTONE, Kenneth David** [AU/AU]; 2/91 Gordon Street, Gordon Park, Queensland 4031 (AU). **WIMMER, Norbert** [AU/AU]; 28 Wharton Street, Moorooka, Queensland 4105 (AU). **HAMMOND, Edward Timothy** [AU/AU]; 154 Stanley Terrace, Taringa, Queensland 4068 (AU).

(74) Agent: **CULLEN & CO.**; Level 26, 239 George Street, Brisbane, Queensland 4001 (AU).

(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, 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
— with amended claims

(54) Title: NOVEL SULFATED OLIGOSACCHARIDE DERIVATIVES

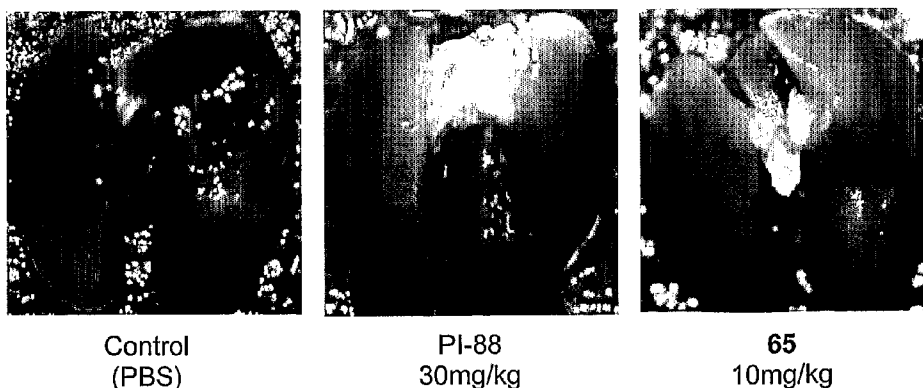


Figure 5: Examples of test compounds blocking the formation of lung colonies (dark spots) of B16F1 melanoma cells in mice.

(57) Abstract: The invention relates to novel compounds that have utility as inhibitors of heparan sulfate-binding proteins; compositions comprising the compounds, and use of the compounds and compositions thereof for the antiangiogenic, antimetastatic, anti-inflammatory, antimicrobial, anticoagulant and/or antithrombotic treatment of a mammalian subject.

WO 2009/049370 A1