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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
2 May 2008 (02.05.2008)

PCT

(10) International Publication Number
WO 2008/051247 A1

(51) International Patent Classification:
A61K 38/00 (2006.01) *A61K 38/04* (2006.01)

(21) International Application Number:
PCT/US2006/047152

(22) International Filing Date:
11 December 2006 (11.12.2006)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/748,645 9 December 2005 (09.12.2005) US
11/341,654 30 January 2006 (30.01.2006) US

(71) Applicant *(for all designated States except US)*: **PHILADELPHIA COLLEGE OF OSTEOPATHIC MEDICINE** [US/US]; 4190 City Avenue, Philadelphia, Pennsylvania 19131 (US).

(72) Inventor; and

(75) Inventor/Applicant *(for US only)*: **YOUNG, Lindon** [US/US]; 1715 Stanwood Street, Philadelphia, Pennsylvania 19152 (US).

(74) Agents: **GREENBAUM, Michael, C.** et al.; Blank Rome LLP, 600 New Hampshire Avenue, NW, Suite 1100, Washington, DC 20037 (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, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, 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, 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, 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).

Published:
— *with international search report*

WO 2008/051247 A1

(54) Title: ORGAN PRESERVATION AND/OR PERFUSION

(57) Abstract: The present invention relates to a solution for preservation, perfusion, and/or reperfusion of an organ, especially the heart, for transplantation. The solution contains peptide inhibitor(s) of protein kinase C ÿ (PKC ÿ). Methods for using the inventive solution are also disclosed, including methods for preserving an organ for transplantation, for protecting an ischemic organ from damage, for attenuating organ dysfunction after ischemia, for maintaining nitric oxide release and/or inhibiting superoxide release in an ischemic organ, and for protecting an organ from damage when isolated from the circulatory system.