

Title (en)
NOVEL MULTIPOTENT STEM CELLS AND USE THEREOF

Title (de)
NEUE MULTIPOTENTE STAMMZELLEN UND VERWENDUNG DAVON

Title (fr)
NOUVELLES CELLULES SOUCHES MULTIPOTENTES

Publication
EP 1685237 A4 20071226 (EN)

Application
EP 04796882 A 20041028

Priority

- US 2004036298 W 20041028
- US 51532003 P 20031028

Abstract (en)
[origin: WO2005042723A2] Disclosed is an isolated bone marrow stem cell (MBSC) having undetectable or low levels of selected cell markers including those typical of endothelial, neuronal and smooth muscle cells. Also disclosed are grafts pharmaceutical products that include such cells. Methods of making the BMSCs are also provided. The invention has a wide spectrum of useful applications including use in the prevention and treatment of cardiovascular disease.

IPC 8 full level
A61K 35/12 (2006.01); **C12N 5/074** (2010.01)

CPC (source: EP KR)
A61K 35/12 (2013.01 - KR); **A61P 9/00** (2017.12 - EP); **A61P 9/04** (2017.12 - EP); **A61P 9/10** (2017.12 - EP); **C12N 5/0607** (2013.01 - EP KR); **C12N 5/0662** (2013.01 - KR); **A61K 35/12** (2013.01 - EP)

Citation (search report)

- [XD] JIANG Y ET AL: "PLURIPOTENCY OF MESENCHYMAL STEM CELLS DERIVED FROM ADULT MARROW", NATURE, NATURE PUBLISHING GROUP, LONDON, GB, vol. 418, no. 6893, 4 July 2002 (2002-07-04), pages 41 - 49, XP001204372, ISSN: 0028-0836
- [XD] JACKSON K A ET AL: "Regeneration of ischemic cardiac muscle and vascular endothelium by adult stem cells", JOURNAL OF CLINICAL INVESTIGATION, NEW YORK, NY, US, vol. 107, no. 11, June 2001 (2001-06-01), pages 1395 - 1402, XP002976368, ISSN: 0021-9738
- [XD] ORLIC D ET AL: "Bone marrow cells regenerate infarcted myocardium", NATURE, NATURE PUBLISHING GROUP, LONDON, GB, vol. 410, 5 April 2001 (2001-04-05), pages 701 - 705, XP002965971, ISSN: 0028-0836
- [PX] YOON YOUNG SUP ET AL: "Novel multipotent stem cells derived from human bone marrow regenerates myocardium after myocardial infarction.", CIRCULATION, vol. 108, no. 17 Supplement, 28 October 2003 (2003-10-28), & AMERICAN HEART ASSOCIATION SCIENTIFIC SESSIONS 2003; ORLANDO, FL, USA; NOVEMBER 09-12, 2003, pages IV - 158, XP002458475, ISSN: 0009-7322
- [T] YOON YOUNG-SUP ET AL: "Clonally expanded novel multipotent stem cells from human bone marrow regenerate myocardium after myocardial infarction", JOURNAL OF CLINICAL INVESTIGATION, vol. 115, no. 2, February 2005 (2005-02-01), pages 326 - 338, XP002458476, ISSN: 0021-9738
- [T] CHO HYUN-JAI ET AL: "Bone marrow-derived stem cell therapy in ischemic heart disease", REGENERATIVE MEDICINE, vol. 1, no. 3, May 2006 (2006-05-01), pages 337 - 345, XP001536397, ISSN: 1746-0751
- See references of WO 2005042723A2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2005042723 A2 20050512; WO 2005042723 A3 20070329; WO 2005042723 A9 20050818; AU 2004286322 A1 20050512; CA 2543794 A1 20050512; CN 101072867 A 20071114; EP 1685237 A2 20060802; EP 1685237 A4 20071226; JP 2007519397 A 20070719; KR 20070007030 A 20070112

DOCDB simple family (application)
US 2004036298 W 20041028; AU 2004286322 A 20041028; CA 2543794 A 20041028; CN 200480039184 A 20041028; EP 04796882 A 20041028; JP 2006538403 A 20041028; KR 20067010523 A 20060529