

Title (en)
COMPOSITION FOR PROMOTING THE MAINTENANCE AND FUNCTION OF MUSCLE-SPECIFIC PROGENITOR CELLS

Title (de)
ZUSAMMENSETZUNG ZUR FÖRDERUNG DER AUFRECHTERHALTUNG UND FUNKTION VON MUSKELSPEZIFISCHEN
VORLÄUFERZELLEN

Title (fr)
COMPOSITION FAVORISANT L'ENTRETIEN ET LA FONCTION DES CELLULES PROGÉNITRICES SPÉCIFIQUES DU MUSCLE

Publication
EP 2142195 A4 20111012 (EN)

Application
EP 07719475 A 20070404

Priority
CA 2007000545 W 20070404

Abstract (en)
[origin: WO2008122098A1] The biological function of skeletal muscle precursor cells in the repair and growth of skeletal muscle in response to exercise is promoted by providing a supplemental composition comprising at least creatine and fucoidin to reinforce biochemical pathways involved in the maintenance of skeletal muscle satellite cells and other myogenic precursors. The composition and method of the present invention induce muscle hypertrophy via satellite cells fusion to muscle fibres and induce a substantially simultaneous replenishment of myogenic precursor cells in response to exercise in a mammal.

IPC 8 full level
A23L 1/29 (2006.01); **A23L 33/00** (2016.01); **A61K 31/05** (2006.01); **A61K 31/164** (2006.01); **A61K 31/197** (2006.01); **A61K 31/737** (2006.01); **A61K 36/03** (2006.01); **A61P 21/00** (2006.01)

CPC (source: EP)
A23L 33/105 (2016.07); **A23L 33/175** (2016.07); **A61K 31/05** (2013.01); **A61K 31/164** (2013.01); **A61K 31/197** (2013.01); **A61K 31/737** (2013.01); **A61K 36/03** (2013.01); **A61K 36/704** (2013.01); **A61P 21/00** (2017.12); **A23V 2002/00** (2013.01)

Citation (search report)
• [Y] OLSEN STEEN ET AL: "Creatine supplementation augments the increase in satellite cell and myonuclei number in human skeletal muscle induced by strength training.", THE JOURNAL OF PHYSIOLOGY 1 JUN 2006 LNKD- PUBMED:16581862, vol. 573, no. Pt 2, 1 June 2006 (2006-06-01), pages 525 - 534, XP002655440, ISSN: 0022-3751
• [Y] ALKHATIB ET AL: "Low molecular weight fucan prevents transplant coronaropathy in rat cardiac allograft model", TRANSPLANT IMMUNOLOGY, ELSEVIER, NL, vol. 16, no. 1, 1 June 2006 (2006-06-01), pages 14 - 19, XP005431154, ISSN: 0966-3274, DOI: 10.1016/J.TRIM.2006.03.003
• [Y] RELIGA P ET AL: "Fucoidan inhibits smooth muscle cell proliferation and reduces mitogen-activated protein kinase activity.", EUROPEAN JOURNAL OF VASCULAR AND ENDOVASCULAR SURGERY : THE OFFICIAL JOURNAL OF THE EUROPEAN SOCIETY FOR VASCULAR SURGERY NOV 2000 LNKD- PUBMED:11112459, vol. 20, no. 5, November 2000 (2000-11-01), pages 419 - 426, XP002655441, ISSN: 1078-5884
• See references of WO 2008122098A1

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

DOCDB simple family (publication)
WO 2008122098 A1 20081016; AU 2007350793 A1 20081016; CA 2682589 A1 20081016; EP 2142195 A1 20100113; EP 2142195 A4 20111012

DOCDB simple family (application)
CA 2007000545 W 20070404; AU 2007350793 A 20070404; CA 2682589 A 20070404; EP 07719475 A 20070404