

Title (en)

ELASTIN PROTECTIVE POLYPHENOLICS AND METHODS OF USING THE SAME

Title (de)

ELASTINSCHÜTZENDE POLYPHENOLE UND VERFAHREN ZU IHRER VERWENDUNG

Title (fr)

COMPOSES POLYPHENOLIQUES PROTEGEANT L'ELASTINE ET METHODES D'UTILISATION CORRESPONDANTES

Publication

EP 1874340 A4 20100630 (EN)

Application

EP 06824685 A 20060329

Priority

- US 2006012027 W 20060329
- US 66596605 P 20050329
- US 75882106 P 20060113

Abstract (en)

[origin: WO2007030145A2] Dermal fibroblasts permanently lose their ability to synthesize elastin, the major component of elastic fibers, shortly after puberty. This progressive loss of elastic fibers cannot be replaced, resulting in the physical signs of aging. The present invention provides methods and compositions containing the polyphenols ellagic acid and/or tannic acid for protection against degradation of cutaneous elastic fibers by the elastolytic enzymes. The use of ellagic acid and/or tannic acid increased the overall deposition of elastic fibers in healthy and damaged skin cells. The protection of both intra- tropoelastin and extra-cellular mature elastic fibers from proteolytic enzymes by ellagic acid and tannic acid caused an increase in the net deposition of elastic fibers. Therefore, embodiments of the present invention provide methods and composition for the treatment of skin and prevention and treatment of degradation of dermal elastic fibers.

IPC 8 full level

A61K 8/19 (2006.01); **A61K 8/49** (2006.01); **A61K 8/60** (2006.01); **A61K 8/64** (2006.01); **A61K 31/366** (2006.01); **A61K 31/39** (2006.01); **A61K 31/7024** (2006.01); **A61K 33/26** (2006.01); **A61K 33/32** (2006.01); **A61K 33/34** (2006.01); **A61K 38/39** (2006.01); **A61K 45/06** (2006.01); **A61P 9/00** (2006.01); **A61P 17/16** (2006.01); **A61Q 19/08** (2006.01)

CPC (source: EP)

A61K 8/19 (2013.01); **A61K 8/498** (2013.01); **A61K 8/602** (2013.01); **A61K 8/64** (2013.01); **A61K 8/645** (2013.01); **A61K 31/366** (2013.01); **A61K 31/39** (2013.01); **A61K 31/7024** (2013.01); **A61K 33/26** (2013.01); **A61K 33/32** (2013.01); **A61K 33/34** (2013.01); **A61K 38/39** (2013.01); **A61K 45/06** (2013.01); **A61P 9/00** (2017.12); **A61P 17/16** (2017.12); **A61Q 19/08** (2013.01); **A61K 2300/00** (2013.01)

Citation (search report)

- [XP] WO 2005118783 A1 20051215 - HUMAN MATRIX SCIENCES LLC [US], et al
- [XY] WO 0064472 A1 20001102 - MURAD HOWARD [US]
- [XY] US 2002127256 A1 20020912 - MURAD HOWARD [US]
- [XY] FR 2768927 A1 19990402 - LVMH RECH [FR]
- [XY] EP 0283349 A1 19880921 - LAMAISSON JEAN LOUIS
- [X] US 2004120918 A1 20040624 - LINTNER KARL [FR], et al
- [Y] US 2004162232 A1 20040819 - MITTS THOMAS [US], et al
- [Y] BUNDA S ET AL: "Fluctuations of intracellular iron modulate elastin production", JOURNAL OF BIOLOGICAL CHEMISTRY, AMERICAN SOCIETY FOR BIOCHEMISTRY AND MOLECULAR BIOLOGY, INC, US LNKD- DOI:10.1074/JBC.M409897200, vol. 280, no. 3, 21 January 2005 (2005-01-21), pages 2341 - 2351, XP002346489, ISSN: 0021-9258
- See references of WO 2007030145A2

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 NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

WO 2007030145 A2 20070315; **WO 2007030145 A3 20090416**; CA 2603102 A1 20070315; CA 2603102 C 20150811; EP 1874340 A2 20080109; EP 1874340 A4 20100630

DOCDB simple family (application)

US 2006012027 W 20060329; CA 2603102 A 20060329; EP 06824685 A 20060329