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SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM,
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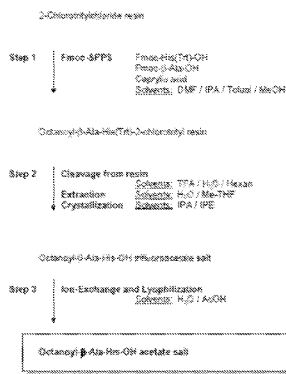
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(54) Title: PEPTIDES FOR SKIN REJUVENATION AND METHODS OF USING THE SAME

FIG. 1

Synthesis of
Octanoyl-β-Ala-His-OH acetate salt (48/10292)

Reagents and solvents:

ACN = Acetonitrile
AcOH = Acetic acid
Bov = tert-Butyl(oxycarbonyl)
CMP = 2-(2-Chloromethyl)hexanoic acid
Fmoc = (9-Fluorenylmethoxycarbonyl)
H₂O = water
IPA = isopropylalcohol
IPE = isopropyl ether
MeOH = Methanol
Me-THF = 2-Methyl-Tetrahydrofuran
SPPS = Solid Phase Peptide Synthesis
TFA = Trifluoroacetic acid
Trt = Triyl

(57) Abstract: The invention provides compositions for stimulating the formation of one or more extracellular matrix components that contain a lipopeptide derivative of the tripeptide carnosine such as N-Octanoyl Carnosine. Also provided are compositions containing N-Octanoyl Carnosine in combination with selected tripeptide and/or tetrapeptides as well as pharmaceutical and/or cosmetic compositions containing such compositions. The invention further provides methods of using the compositions and compositions of the invention to treat, alleviate, and/or ameliorate a symptom, condition, disorder, or disease of the skin or mucosa, wherein the symptom, condition, disorder, or disease is associated with changes in extracellular matrix components.

INTERNATIONAL SEARCH REPORT

International application No
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A. CLASSIFICATION OF SUBJECT MATTER

INV. C07K5/06 A61K8/30 A61K8/64 A61K38/05 A61Q19/08
A61P17/00

ADD.

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

C07K A61K A61P

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-Internal, BIOSIS, EMBASE, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	Lintner K: "Chapter 36: Peptides and proteins" In: Lintner K: "Cosmetic dermatology: products and Procedures", 2010, Blackwell Publishing, XP002733566, ISBN: 978-1-4051-8635-3	1,4-6
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Y	----- NAGAI K ET AL: "ACTION OF CARNOSINE AND BETA-ALANINE ON WOUND HEALING", SURGERY, MOSBY, INC, US, vol. 100, no. 5, 1 November 1986 (1986-11-01), pages 815-821, XP008004144, ISSN: 0039-6060 the whole document ----- -/-	1-50

☒ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

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"&" document member of the same patent family

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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