

Title (en)
COMPOSITIONS CONTAINING FUSION PROTEIN OF ALBUMIN AND ANALOGS THEREOF, METHODS FOR MAKING AND USING THE SAME

Title (de)
ZUSAMMENSETZUNGEN MIT FUSIONSPROTEIN VON ALBUMIN UND ANALOGA DAVON, VERFAHREN ZUR HERSTELLUNG UND VERWENDUNG DAVON

Title (fr)
COMPOSITIONS CONTENANT UNE PROTÉINE HYBRIDE D'ALBUMINE ET DES ANALOGUES DE CELLE-CI, PROCÉDÉS DE PRODUCTION ET D'UTILISATION DE CELLES-CI

Publication
EP 3503911 A4 20200729 (EN)

Application
EP 17844067 A 20170627

Priority
• US 201615249346 A 20160826
• US 2017039477 W 20170627

Abstract (en)
[origin: WO2018038803A1] The invention is related to fusion proteins of human somatostatin (e.g., SST-14 or SST-28) and human serum albumin, comprising a region at least 85% homologous to human somatostatin and a region at least 85% homologous to human serum albumin or a region with a partial amino acid sequence of human serum albumin, wherein linker peptide sequences may be present between somatostatin and somatostatin moieties or somatostatin and albumin moieties. Also disclosed are constructs wherein the somatostatin moiety contains multiple tandem repeats of a somatostatin sequence. In selected embodiments, the orientation of the somatostatin and albumin moieties can be varied, and such sequences may impact the binding and efficacy of the disclosed fusion proteins. Also disclosed are methods of making and using the aforementioned constructs. The somatostatin-albumin fusion protein demonstrated enhanced stability when incubated in rat plasma in vitro and prolonged plasma half-life in vivo compared with free somatostatin.

IPC 8 full level
A61K 38/31 (2006.01); **A61K 38/16** (2006.01); **A61K 38/22** (2006.01); **A61K 38/38** (2006.01); **A61P 5/02** (2006.01); **C07K 14/655** (2006.01); **C07K 14/765** (2006.01); **C12N 15/62** (2006.01)

CPC (source: EP)
A61P 5/02 (2017.12); **C07K 14/655** (2013.01); **C07K 14/765** (2013.01); **A61K 38/00** (2013.01); **C07K 2319/00** (2013.01)

Citation (search report)
• [XDYI] CN 102391376 A 20120328 - JIANGSU INST NUCLEAR MEDICINE
• [XYI] CN 102675467 A 20120919 - WUXI KUNZHOU DADE PHARMACEUTICAL CO LTD
• [A] DING YUEDI ET AL: "The effect of albumin fusion structure on the production and bioactivity of the somatostatin-28 fusion protein in Pichia pastoris", JOURNAL OF INDUSTRIAL MICROBIOLOGY AND BIOTECHNOLOGY, BASINGSTOKE, GB, vol. 41, no. 6, 22 April 2014 (2014-04-22), pages 997 - 1006, XP035318227, ISSN: 1367-5435, [retrieved on 20140422], DOI: 10.1007/S10295-014-1440-5
• [A] DING Y ET AL: "The effect of albumin fusion patterns on the production and bioactivity of the somatostatin-14 fusion protein in Pichia pastoris", APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY AUGUST 2013 HUMANA PRESS USA, vol. 170, no. 7, August 2013 (2013-08-01), pages 1637 - 1648, XP002797314, DOI: 10.1007/S12010-013-0304-1
• See references of WO 2018038803A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
WO 2018038803 A1 20180301; EP 3503911 A1 20190703; EP 3503911 A4 20200729; JP 2019534707 A 20191205; SG 11201901651T A 20190328

DOCDB simple family (application)
US 2017039477 W 20170627; EP 17844067 A 20170627; JP 2019531852 A 20170627; SG 11201901651T A 20170627