

Title (en)
IL1-R1 DERIVED INHIBITOR OF IL-1B AND USE THEREOF

Title (de)
IL1-R1-ABGELEITETER INHIBITOR VON IL-1B UND VERWENDUNG DAVON

Title (fr)
INHIBITEUR DÉRIVÉ D'IL-1-R1 DE L'IL-1B ET SON UTILISATION

Publication
EP 4153613 A1 20230329 (EN)

Application
EP 20936359 A 20200522

Priority
US 2020034114 W 20200522

Abstract (en)
[origin: WO2021236091A1] A therapeutic composition is described that can be used for treating or prevention of diseases association with modulation of activity of human IL-1 β . In certain aspects, the disclosed composition is based on engineering of a heterodimeric protein assembly that is capable of binding to human IL-1 β and attenuating its function. The heterodimeric protein assembly comprises extracellular portions of human IL1-R1 and of human IL-1RAcP, or their functional fragments. Each, the IL1-R1 portion and the IL-1RAcP portion, is fused to a distinct mutant of Fc portion of the human Ig Gamma-1. The two distinct Fc mutants in the heterodimeric protein assembly are engineered as to favor the heteromeric dimer formation between the two Fc mutants over any homomeric assembly. The therapeutic composition has been formulated for administration into humans and animals.

IPC 8 full level
C07K 14/545 (2006.01); **A61K 38/20** (2006.01); **A61P 3/00** (2006.01); **A61P 3/10** (2006.01); **A61P 19/02** (2006.01); **A61P 37/00** (2006.01); **A61P 43/00** (2006.01); **C07K 19/00** (2006.01)

CPC (source: EP)
A61P 3/00 (2017.12); **A61P 3/10** (2017.12); **A61P 19/02** (2017.12); **A61P 37/00** (2017.12); **C07K 14/7155** (2013.01); **A61K 38/00** (2013.01); **C07K 2319/30** (2013.01)

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

Designated extension state (EPC)
BA ME

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
WO 2021236091 A1 20211125; BR 112022022089 A2 20221213; CN 115768787 A 20230307; EP 4153613 A1 20230329; EP 4153613 A4 20240124; JP 2023527171 A 20230627; MX 2022014410 A 20221206

DOCDB simple family (application)
US 2020034114 W 20200522; BR 112022022089 A 20200522; CN 202080101065 A 20200522; EP 20936359 A 20200522; JP 2022571138 A 20200522; MX 2022014410 A 20200522