Title (en)

MONONUCLEAR CELL DERIVED NK CELLS

Title (de)

AUS EINKERNIGEN ZELLEN ABGELEITETE NK-ZELLEN

Title (fr)

CELLULES NK DÉRIVÉES DE CELLULES MONONUCLÉAIRES

Publication

EP 3853354 A4 20220420 (EN)

Application

EP 19936966 A 20190708

Priority

US 2019040867 W 20190708

Abstract (en)

[origin: WO2021006875A1] Cord blood or peripheral blood NK cells are prepared from whole blood mononuclear cells without the need to isolate CD34+ hematopoietic stem cells or NK cells, and without the need for a feeder layer. Advantageously, the methods presented herein use an enrichment process that uses antiCD16 agonist antibodies, antiCD3 antibodies, and N-803. Moreover, contemplated processes are suitable for adaptation into a fully automated production process (GMP in a box).

IPC 8 full level

C12N 5/0783 (2010.01)

CPC (source: EP IL KR US)

C12N 5/0646 (2013.01 - EP IL KR US); C12N 2501/2315 (2013.01 - EP KR); C12N 2501/515 (2013.01 - EP IL KR); C12N 2501/599 (2013.01 - EP IL KR); C12N 2506/11 (2013.01 - EP KR); C12N 2509/00 (2013.01 - KR)

Citation (search report)

- [XI] US 2018355317 A1 20181213 - SHIN DONG HYUK [KR]
- [A] HONG-RAE LEE ET AL: "Expansion of cytotoxic natural killer cells using irradiated autologous peripheral blood mononuclear cells and anti-CD16 antibody", SCIENTIFIC REPORTS, vol. 7, no. 1, 11 September 2017 (2017-09-11), XP055762396, DOI: 10.1038/s41598-017-09259-1
- See also references of WO 2021006875A1

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

DOCDB simple family (publication)

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DOCDB simple family (application)

US 2019040867 W 20190708; AU 2019456283 A 20190708; CA 3120695 A 20190708; CN 201980078702 A 20190708; EP 19936966 A 20190708; IL 28399821 A 20210614; JP 2021527968 A 20190708; JP 2023001780 A 20230110; KR 20217018216 A 20190708; SG 11202104339W A 20190708