

(19)



(11)

EP 3 758 729 B8

(12)

CORRECTED EUROPEAN PATENT SPECIFICATION

(15) Correction information:

Corrected version no 1 (W1 B1)
Corrections, see
Bibliography INID code(s) 73

(51) International Patent Classification (IPC):

A61K 38/00 ^(2006.01) **A61K 38/20** ^(2006.01)
C07K 14/54 ^(2006.01) **C12N 15/24** ^(2006.01)
A61P 35/00 ^(2006.01)

(48) Corrigendum issued on:

11.12.2024 Bulletin 2024/50

(52) Cooperative Patent Classification (CPC):

A61K 38/2086; A61K 47/60; A61P 35/00;
C07K 14/5443

(45) Date of publication and mention of the grant of the patent:

06.11.2024 Bulletin 2024/45

(86) International application number:

PCT/US2019/019637

(21) Application number: **19758302.4**

(87) International publication number:

WO 2019/165453 (29.08.2019 Gazette 2019/35)

(22) Date of filing: **26.02.2019**

(54) IL-15 CONJUGATES AND USES THEREOF

IL-15-KONJUGATE UND VERWENDUNGEN DAVON

CONJUGUÉS D'IL-15 ET LEURS UTILISATIONS

(84) Designated Contracting States:

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 States:

BA ME

Designated Validation States:

KH MA MD TN

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(30) Priority: **26.02.2018 US 201862635133 P**

(56) References cited:

EP-A1- 3 064 507 **WO-A1-2019/028419**
WO-A1-2019/166946 **WO-A2-2015/153753**
US-A1- 2006 057 680 **US-A1- 2008 300 163**
US-A1- 2010 015 723 **US-A1- 2010 086 517**
US-A1- 2016 367 635 **US-A1- 2017 035 898**
US-A1- 2017 369 871 **US-B2- 7 858 081**
US-B2- 9 328 159

(43) Date of publication of application:

06.01.2021 Bulletin 2021/01

(60) Divisional application:

24210822.3

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• **ANONYMOUS: "Designing Optimized Biologics Through Our Expanded Genetic Alphabet Platform", 1 January 2019 (2019-01-01), XP055811994, Retrieved from the Internet <URL:https://www.jefferies.com/CMSFiles/Jefferies.com/files/Synthorx%20v2.pdf> [retrieved on 20210609]**

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- CAFFARO CAROLINA E: "P613 Discovery of pharmacologically differentiated interleukin 15 (IL-15) agonists employing a synthetic biology platform", JOURNAL FOR IMMUNOTHERAPY OF CANCER, vol. 7, no. S1, 1 November 2019 (2019-11-01), XP055812005, Retrieved from the Internet
<URL:https://jitc.biomedcentral.com/track/pdf/10.1186/s40425-019-0764-0.pdf> DOI: 10.1186/s40425-019-0764-0
- CAROLINA E. CAFFARO: "EX-99.1 Discovery of Pharmacologically Differentiated Interleukin 15 (IL-15) Agonists Employing a Synthetic Biology Platform", 1 October 2019 (2019-10-01), XP055811406, Retrieved from the Internet
<URL:https://www.sec.gov/Archives/edgar/data/1609727/000119312519287762/d805399dex991.htm> [retrieved on 20210608]
- DEITERS A ET AL: "Site-specific PEGylation of proteins containing unnatural amino acids", BIORGANIC & MEDICINAL CHEMISTRY LETTERS, ELSEVIER, AMSTERDAM , NL, vol. 14, no. 23, 6 December 2004 (2004-12-06), pages 5743 - 5745, XP004611112, ISSN: 0960-894X, DOI: 10.1016/J.BMCL.2004.09.059
- KAI-PING HAN ET AL: "IL-15:IL-15 receptor alpha superagonist complex: High-level co-expression in recombinant mammalian cells, purification and characterization", CYTOKINE, ACADEMIC PRESS LTD, PHILADELPHIA, PA, US, vol. 56, no. 3, 28 September 2011 (2011-09-28), pages 804 - 810, XP028115119, ISSN: 1043-4666, [retrieved on 20111003], DOI: 10.1016/J.CYTO.2011.09.028
- GUO YIN ET AL: "Immunobiology of the IL-15/IL-15R[alpha] complex as an antitumor and antiviral agent", CYTOKINE & GROWTH FACTOR REVIEWS, vol. 38, 2017, pages 10 - 21, XP085253997, ISSN: 1359-6101, DOI: 10.1016/J.CYTOGFR.2017.08.002