

(19)



(11)

EP 3 634 581 B8

(12)

CORRECTED EUROPEAN PATENT SPECIFICATION

(15) Correction information:

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

(48) Corrigendum issued on:

11.09.2024 Bulletin 2024/37

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

31.07.2024 Bulletin 2024/31

(21) Application number: **18810153.9**

(22) Date of filing: **31.05.2018**

(51) International Patent Classification (IPC):

A61K 36/47 ^(2006.01) **A61K 31/535** ^(2006.01)
A61K 9/00 ^(2006.01) **A61K 9/20** ^(2006.01)
A61K 9/48 ^(2006.01) **A61P 1/00** ^(2006.01)
A61P 1/04 ^(2006.01) **A61P 1/12** ^(2006.01)
A61K 9/28 ^(2006.01)

(52) Cooperative Patent Classification (CPC):

A61P 1/00; A61K 31/535; A61P 1/04; A61P 1/12;
A61K 9/0095; A61K 9/20; A61K 9/28; A61K 9/48

(86) International application number:

PCT/US2018/035468

(87) International publication number:

WO 2018/222919 (06.12.2018 Gazette 2018/49)

(54) **COMPOSITIONS FOR USE IN TREATING CONGENITAL DIARRHEA DISORDER**

ZUSAMMENSETZUNG ZUR VERWENDUNG ZUR BEHANDLUNG VON KONGENITALER DIARRHÖ
 COMPOSITIONS POUR UTILISATION DANS LE TRAITEMENT D' UN TROUBLE DE LA DIARRHÉE
 CONGÉNITALE

(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**

(30) Priority: **31.05.2017 US 201762513251 P**

(43) Date of publication of application:

15.04.2020 Bulletin 2020/16

(73) Proprietor: **Napo Pharmaceuticals, Inc.**

San Francisco, CA 94104 (US)

(72) Inventors:

- **CONTE, Lisa, A.**
San Francisco
CA 94105 (US)
- **CHATURVEDI, Pravin, R.**
Andover
MA 01810 (US)

(74) Representative: **Thomann, William John**

ZSP
Patentanwälte PartG mbB
Hansastraße 32
80686 München (DE)

(56) References cited:

WO-A1-98/16111 **US-A1- 2007 254 050**
US-A1- 2012 202 876

- "Current Concepts in Colonic Disorders", 5 January 2012, INTECH, ISBN: 978-953-30-7957-8, article **CLAUDIA VELAZQUEZ ET AL:** "Management of Secretory Diarrhea", pages: 67 - 84, XP055561545, DOI: 10.5772/28528
- **VOGEL GEORG F. ET AL:** "Towards understanding microvillus inclusion disease", **MOLECULAR AND CELLULAR PEDIATRICS**, vol. 3, no. 1, 1 December 2016 (2016-12-01), XP093023273, Retrieved from the Internet <URL:https://www.ncbi.nlm.nih.gov/pmc/article/s/PMC4733813/pdf/40348_2016_Article_31.pdf> DOI: 10.1186/s40348-016-0031-0

EP 3 634 581 B8

Note: Within nine months of the publication of the mention of the grant of the European patent in the European Patent Bulletin, any person may give notice to the European Patent Office of opposition to that patent, in accordance with the Implementing Regulations. Notice of opposition shall not be deemed to have been filed until the opposition fee has been paid. (Art. 99(1) European Patent Convention).

- OLLER HALEY ET AL: "DEVELOPMENT OF PATIENT-DERIVED ENTEROIDS AS A THERAPEUTIC PLATFORM FOR MICROVILLUS INCLUSION DISEASE", 31 May 2022 (2022-05-31), pages S10, XP093079965, Retrieved from the Internet
<URL:https://www.sciencedirect.com/science/article/pii/S0016508522600258/pdf?md5=8d86d9550657e3d6bedb7a5fcbda2bc2&pid=1-s2.0-S0016508522600258-main.pdf> [retrieved on 20230907]
- DATABASE MEDLINE [online] US NATIONAL LIBRARY OF MEDICINE (NLM), BETHESDA, MD, US; March 2016 (2016-03-01), LOCK OLGA ET AL: "Bioactive Compounds from Plants Used in Peruvian Traditional Medicine.", Database accession no. NLM27169179
- TRADTRANTIP LUKMANEE ET AL: "Crofelemer, an Antisecretory Antidiarrheal Proanthocyanidin Oligomer Extracted from Croton lechleri, Targets Two Distinct Intestinal Chloride Channels", MOLECULAR PHARMACOLOGY, AMERICAN SOCIETY FOR PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS, US, vol. 77, no. 1, 1 January 2010 (2010-01-01), pages 69 - 78, XP009170161, ISSN: 0026-895X, DOI: 10.1124/MOL.109.061051
- JAY R. THIAGARAJAH ET AL: "Secretory diarrhoea: mechanisms and emerging therapies", NATURE REVIEWS GASTROENTEROLOGY, vol. 12, no. 8, 30 June 2015 (2015-06-30), London, pages 446 - 457, XP55764695, ISSN: 1759-5045, DOI: 10.1038/nrgastro.2015.111
- JONES KENNETH: "Review of sangre de drago (Croton lechleri)-- a South American tree sap in the treatment of diarrhea, inflammation, insect bites, viral infections, and wounds: traditional uses to clinical research", JOURNAL OF ALTERNATIVE AND COMPLEMENTARY MEDICINE, MARY ANN LIEBERT, NEW YORK, NY, US, vol. 9, no. 6, 1 December 2003 (2003-12-01), pages 877 - 896, XP009141651, ISSN: 1075-5535
- RAO MRINALINI C.: "Oral Rehydration Therapy: New Explanations for an Old Remedy", ANNUAL REVIEW OF PHYSIOLOGY., vol. 66, no. 1, 1 March 2004 (2004-03-01), US, pages 385 - 417, XP055835704, ISSN: 0066-4278, Retrieved from the Internet
<URL:https://www.annualreviews.org/doi/pdf/10.1146/annurev.physiol.66.032902.134726> DOI: 10.1146/annurev.physiol.66.032902.134726
- JAY R. THIAGARAJAH ET AL: "Discovery and Development of Antisecretory Drugs for Treating Diarrheal Diseases", CLINICAL GASTROENTEROLOGY AND HEPATOLOGY, vol. 12, no. 2, 1 February 2014 (2014-02-01), AMSTERDAM, NL, pages 204 - 209, XP055764693, ISSN: 1542-3565, DOI: 10.1016/j.cgh.2013.12.001
- JAY R. THIAGARAJAH ET AL: "Secretory diarrhoea: mechanisms and emerging therapies", NATURE REVIEWS / GASTROENTEROLOGY & HEPATOLOGY, vol. 12, no. 8, 30 June 2015 (2015-06-30), US, pages 446 - 457, XP055764695, ISSN: 1759-5045, DOI: 10.1038/nrgastro.2015.111
- VELAZQUEZ ET AL.: "Management of Secretory Diarrhea", CURRENT CONCEPTS IN COLONIC DISORDERS , INTECH, January 2012 (2012-01-01), pages 67 - 84, XP055561545

Remarks:

The file contains technical information submitted after the application was filed and not included in this specification