

Title (en)
ENGINEERED NUCLEIC ACIDS AND METHODS OF USE THEREOF

Title (de)
MANIPULIERTE NUKLEINSÄUREN UND ANWENDUNGSVERFAHREN DAFÜR

Title (fr)
ACIDES NUCLÉIQUES MODIFIÉS ET LEURS PROCÉDÉS D'UTILISATION

Publication
EP 2755986 A4 20150520 (EN)

Application
EP 12831509 A 20120911

Priority
• US 201161533537 P 20110912
• US 2012054561 W 20120911

Abstract (en)
[origin: WO2013039857A1] Provided are compositions and methods for delivering biological moieties such as modified nucleic acids into cells to kill or reduce the growth of microorganisms. Such compositions and methods include the use of modified messenger RNAs, and are useful to treat or prevent microbial infection, or to improve a subject's health or wellbeing.

IPC 8 full level
C07H 21/02 (2006.01); **A61K 48/00** (2006.01); **C07K 14/47** (2006.01)

CPC (source: EP)
A61K 48/0066 (2013.01); **A61K 48/0091** (2013.01); **C07H 21/02** (2013.01); **C07K 14/4723** (2013.01)

Citation (search report)
• [A] WO 2011005799 A2 20110113 - NOVARTIS AG [CH], et al
• [I] KARIKÓ KATALIN ET AL: "Incorporation of pseudouridine into mRNA yields superior nonimmunogenic vector with increased translational capacity and biological stability", MOLECULAR THERAPY, NATURE PUBLISHING GROUP, GB, vol. 16, no. 11, 1 November 2008 (2008-11-01), pages 1833 - 1840, XP002598556, ISSN: 1525-0024, [retrieved on 20080916], DOI: 10.1038/MT.2008.200
• [I] KATALIN KARIKÓ ET AL: "Generating the optimal mRNA for therapy: HPLC purification eliminates immune activation and improves translation of nucleoside-modified, protein-encoding mRNA", NUCLEIC ACIDS RESEARCH, OXFORD UNIVERSITY PRESS, GB, vol. 39, no. 21, 2 September 2011 (2011-09-02), pages e142 - 1, XP002696190, ISSN: 1362-4962, [retrieved on 20110902], DOI: 10.1093/NAR/GKR695
• [I] KARIKO KATALIN ET AL: "Impacts of nucleoside modification on RNA-mediated activation of toll-like receptors", 1 January 2008, NUCLEIC ACIDS IN INNATE IMMUNITY, CRC PRESS-TAYLOR & FRANCIS GROUP, 6000 BROKEN SOUND PARKWAY NW, STE 300, BOCA RATON, FL 33487-2742 USA, PAGE(S) 171 - 188, ISBN: 978-1-4200-6825-2, XP008166255

Citation (examination)
• K. O. KISICH ET AL: "Antimycobacterial Agent Based on mRNA Encoding Human -Defensin 2 Enables Primary Macrophages To Restrict Growth of Mycobacterium tuberculosis", INFECTION AND IMMUNITY, vol. 69, no. 4, 1 April 2001 (2001-04-01), US, pages 2692 - 2699, XP055282571, ISSN: 0019-9567, DOI: 10.1128/IAI.69.4.2692-2699.2001
• See also references of WO 2013039857A1

Cited by
WO2023225670A2; DE112021002672T5; WO2024020587A2; WO2024138194A1; WO2023077148A1; WO2023215831A1; WO2023122764A1; WO2023205744A1; DE112020001339T5; DE112020001342T5

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

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US 2012054561 W 20120911; EP 12831509 A 20120911