

Title (en)
RNA INTERFERENCE MEDIATED INHIBITION OF CHECKPOINT KINASE-1 (CHK-1) GENE EXPRESSION USING SHORT INTERFERING NUCLEIC ACID

Title (de)
DURCH RNA-INTERFERENZ VERMITTELTE INHIBIERUNG DER GENEXPRESSON VON CHECKPOINTKINASE-1 (CHK-1) UNTER VERWENDUNG KURZER INTERFERIERENDER NUKLEINSÄUREN

Title (fr)
INHIBITION DE L'EXPRESSION DU GENE CHECKPOINT KINASE-1 (CHK-1) MEDIEE PAR L'ARN I A L'AIDE D'UN ACIDE NUCLEIQUE A INTERFERENCE PROCHE

Publication
EP 1465910 A4 20050316 (EN)

Application
EP 03709100 A 20030213

Priority
• US 0304448 W 20030213
• US 35858002 P 20020220
• US 36312402 P 20020311
• US 38678202 P 20020606
• US 40109302 P 20020805
• US 40678402 P 20020829
• US 40837802 P 20020905
• US 40929302 P 20020909
• US 44012903 P 20030115

Abstract (en)
[origin: WO03070888A2] The present invention concerns methods and reagents useful in modulating Checkpoint Kinase-1 (CHK-1) gene expression in a variety of applications, including use in therapeutic, diagnostic, target validation, and genomic discovery applications. Specifically, the invention relates to small nucleic acid molecules, such as short interfering nucleic acid (siNA), short interfering RNA (siRNA), double-stranded RNA (dsRNA), micro-RNA (miRNA), and short hairpin RNA (shRNA) molecules capable of mediating RNA interference (RNAi) against CHK-1 gene expression. The siNA molecules are useful in the treatment of proliferative disorders, such as cancer and restenosis.

IPC 1-7
C12Q 1/68; **C12P 19/34**; **C12N 15/85**; **C12N 15/86**; **C07H 21/02**; **C07H 21/04**; **A61K 48/00**

IPC 8 full level
A61K 47/48 (2006.01); **C12N 15/113** (2010.01); **C12N 15/115** (2010.01); **A61K 38/00** (2006.01)

CPC (source: EP)
A61K 47/54 (2017.07); **C12N 15/1132** (2013.01); **C12N 15/1137** (2013.01); **C12N 15/115** (2013.01); **C12Y 207/11001** (2013.01); **C12Y 207/11013** (2013.01); **C12Y 301/03048** (2013.01); **A61K 38/00** (2013.01); **C12N 2310/111** (2013.01); **C12N 2310/12** (2013.01); **C12N 2310/121** (2013.01); **C12N 2310/14** (2013.01); **C12N 2310/315** (2013.01); **C12N 2310/317** (2013.01); **C12N 2310/318** (2013.01); **C12N 2310/321** (2013.01); **C12N 2310/322** (2013.01); **C12N 2310/332** (2013.01); **C12N 2310/346** (2013.01); **C12N 2310/53** (2013.01)

Citation (search report)
• [Y] WO 0157206 A2 20010809 - RIBOZYME PHARM INC [US], et al
• [Y] US 6211164 B1 20010403 - LUO YAN [US], et al
• [Y] ELBASHIR SAYDA M ET AL: "Duplexes of 21-nucleotide RNAs mediate RNA interference in cultured mammalian cells", NATURE, MACMILLAN JOURNALS LTD. LONDON, GB, vol. 411, no. 6836, 24 May 2001 (2001-05-24), pages 494 - 498, XP002206451, ISSN: 0028-0836
• [Y] ELBASHIR SAYDA M ET AL: "RNA interference is mediated by 21- and 22-nucleotide RNAs", GENES AND DEVELOPMENT, COLD SPRING HARBOR LABORATORY PRESS, NEW YORK, US, vol. 15, no. 2, 15 January 2001 (2001-01-15), pages 188 - 200, XP002204651, ISSN: 0890-9369
• [Y] BASS B L: "RNA interference: the short answer", NATURE, MACMILLAN JOURNALS LTD. LONDON, GB, vol. 411, 24 May 2001 (2001-05-24), pages 428 - 429, XP002239989, ISSN: 0028-0836
• [Y] ELBASHIR S M ET AL: "Functional anatomy of siRNAs for mediating efficient RNAi in Drosophila melanogaster embryo lysate", EMBO JOURNAL, OXFORD UNIVERSITY PRESS, SURREY, GB, vol. 20, no. 23, 3 December 2001 (2001-12-03), pages 6877 - 6888, XP002225998, ISSN: 0261-4189
• See references of WO 03070888A2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT SE SI SK TR

DOCDB simple family (publication)
WO 03070888 A2 20030828; **WO 03070888 A3 20040401**; **WO 03070888 B1 20040527**; AU 2003213057 A1 20030909; AU 2003213057 A8 20030909; EP 1465910 A2 20041013; EP 1465910 A4 20050316

DOCDB simple family (application)
US 0304448 W 20030213; AU 2003213057 A 20030213; EP 03709100 A 20030213