

Title (en)
STEREISOMERS OF CpG OLIGONUCLEOTIDES AND RELATED METHODS

Title (de)
STEREISOMERE VON CPG OLIGONUKLEOTIDEN UND VERWANDTE VERFAHREN

Title (fr)
STEREO-ISOMERES D'OLIGONUCLEOTIDES DE TYPE CpG ET PROCEDES CONNEXES

Publication
EP 1100807 A1 20010523 (EN)

Application
EP 99938843 A 19990727

Priority
• US 9917100 W 19990727
• US 9437098 P 19980727

Abstract (en)
[origin: WO0006588A1] The interactions of nucleic acids with proteins can be selective for the R stereoisomer, the S stereoisomer, or can be stereoindpendent. The present invention demonstrates that the S stereoisomer of CpG containing DNA is active in mediating the immune stimulatory effects of CpG DNA. The invention provides methods of use of a pure stereoisomer or of DNA enriched for this form for clinical applications for CpG DNA, such as vaccine adjuvants, immune activators for the prevention or treatment of retroviral, viral, parasitic or fungal diseases, or cancer immunotherapy, immunotherapy of allergic and asthmatic diseases, etc. The invention also provides methods of use for R stereoisomer DNA to oppose the immune stimulatory effects of CpG DNA. Such R stereoisomers are useful in the treatment of diseases such as Sepsis syndrome, intestinal inflammatory diseases, psoriasis, gingivitis, systemic lupus erythematosus and other autoimmune diseases.

IPC 1-7
C07H 21/00; **A61K 31/70**; **C12N 15/11**

IPC 8 full level
A61K 31/711 (2006.01); **A61P 11/06** (2006.01); **A61P 17/00** (2006.01); **A61P 27/02** (2006.01); **A61P 29/00** (2006.01); **A61P 31/00** (2006.01); **A61P 35/00** (2006.01); **A61P 37/04** (2006.01); **A61P 37/06** (2006.01); **A61P 37/08** (2006.01); **C07H 21/00** (2006.01); **C12N 15/117** (2010.01)

CPC (source: EP)
A61P 11/06 (2017.12); **A61P 17/00** (2017.12); **A61P 27/02** (2017.12); **A61P 29/00** (2017.12); **A61P 31/00** (2017.12); **A61P 35/00** (2017.12); **A61P 37/04** (2017.12); **A61P 37/06** (2017.12); **A61P 37/08** (2017.12); **C07H 21/00** (2013.01); **C12N 15/117** (2013.01); **C12N 2310/312** (2013.01)

Citation (search report)
See references of WO 0006588A1

Cited by
US10322173B2; US10144933B2; US10149905B2; US10428019B2; US9617547B2; US9744183B2; US10307434B2; US10160969B2; US10167309B2; US9982257B2; US10590413B2; US9605019B2; US9695211B2; US10280192B2; US10329318B2

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
WO 0006588 A1 20000210; **WO 0006588 B1 20000406**; AU 5323899 A 20000221; AU 764532 B2 20030821; CA 2333854 A1 20000210; EP 1100807 A1 20010523; JP 2002521489 A 20020716

DOCDB simple family (application)
US 9917100 W 19990727; AU 5323899 A 19990727; CA 2333854 A 19990727; EP 99938843 A 19990727; JP 2000562385 A 19990727