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(71) Applicant *(for all designated States except US)*: **GOVERNMENT OF THE UNITED STATES OF AMERICA, Represented by THE SECRETARY, DEPARTMENT OF HEALTH AND HUMAN SERVICES** [US/US]; Office Of Technology Transfer, 6011 Executive Boulevard, Suite 325, Rockville, Maryland 20852 (US).

(72) Inventors; and
(75) Inventors/Applicants *(for US only)*: **VERTHELYI, Daniela. BEAUCAGE, Serge, L.. GRAJKOWSKI, Andrzej.**

(74) Agents: **GASE, John, L.** et al.; Leydig, Voit & Mayer, Ltd., Two Prudential Plaze, Suite 4900, 180 N. Stetson Avenue, Chicago, Illinois 60601-6780 (US).

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(54) Title: CPG OLIGONUCLEOTIDE PRODRUGS, COMPOSITIONS THEREOF AND ASSOCIATED THERAPEUTIC METHODS

(57) Abstract: The present invention provides a CpG oligonucleotide prodrug that includes a thermolabile substituent on at least one nucleotide thereof. The present invention also provides compositions that include a carrier and a therapeutically effective amount of at least one CpG oligonucleotide prodrug. The present invention further provides therapeutic methods of using such thermolabile CpG oligonucleotide prodrugs and compositions thereof. The present invention further provides a method of inhibiting tetrad formation in a CpG oligonucleotide by functionalizing the CpG oligonucleotide with one or more thermolabile substituents.

INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
INV. C12N15/11 C07H21/00 A61K31/7125 A61P37/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
C12N C07H A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)
EPO-Internal, CHEM ABS Data, WPI Data, Sequence Search

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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Y	claims 1,7; table 1	2-62
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Y	the whole document	12-62

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[X] Further documents are listed in the continuation of Box C.

[X] See patent family annex.

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Date of the actual completion of the international search	Date of mailing of the international search report
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Name and mailing address of the ISA/	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31–70) 340–2040, Tx. 31 651 epo nl, Fax: (+31–70) 340–3016	Bardili, Burkhart

1

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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1

INTERNATIONAL SEARCH REPORT

Information on patent family members

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