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(54) **Title:** PHARMACEUTICAL COMPOSITION CONSISTING OF RNA HAVING ALKALI METAL AS COUNTER ION AND FORMULATED WITH DICATIONS

(57) **Abstract:** The present invention relates to a biologically active RNA - alkali metal - dication formulation, a pharmaceutical composition containing said complexes and to a method of producing the same. The formulation of the present invention is particularly useful to introduce RNA and eventual attached cargo in cells allowing its biological intracellular activities: e.g. immunostimulation (immunomodulation), RNA interference or gene expression.

INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
INV. A61K47/00 C12N15/88 A61K9/00
ADD.
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)
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 practicable, search terms used)
EPO-Internal, BIOSIS, EMBASE, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2008/267873 A1 (HOERR INGMAR [DE] ET AL) 30 October 2008 (2008-10-30)	1-17
Y	paragraph [0033] - paragraph [0080] page 2 - page 8; examples 1-2	18-23
Y	----- EP 1 083 232 A1 (JUNG GUENTHER PROF DR [DE]; RAMMENSEE HANS GEORG PROF DR [DE]; HOERR I) 14 March 2001 (2001-03-14) paragraph [0049]	18-23
A	----- PROBST J. ET AL.: "Spontaneous cellular uptake of exogenous messenger RNA in vivo is nucleic acid-specific, saturable and ion dependent", GENE THERAPY, vol. 14, 3 May 2007 (2007-05-03), pages 1175-1180, XP002679377, the whole document -----	1-23

Further documents are listed in the continuation of Box C.

See patent family annex.

* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
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INTERNATIONAL SEARCH REPORT

Information on patent family members

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