

Title (en)
TEMPERATURE-DEPENDENT ACTIVATION OF CATALYTIC NUCLEIC ACIDS FOR CONTROLLED ACTIVE SUBSTANCE RELEASE

Title (de)
TEMPERATURABHÄNGIGE AKTIVIERUNG VON KATALYTISCHEN NUKLEINSÄUREN ZUR KONTROLLIERTEN WIRKSTOFFFREISETZUNG

Title (fr)
ACTIVATION, DEPENDANT DE LA TEMPERATURE, D'ACIDES NUCLEIQUES CATALYTIQUES POUR UNE LIBERATION CONTROLEE DE PRINCIPE ACTIF

Publication
EP 2512441 A2 20121024 (DE)

Application
EP 10796285 A 20101216

Priority
• US 28247110 P 20100216
• DE 102009058769 A 20091216
• EP 2010007702 W 20101216

Abstract (en)
[origin: WO2011082796A2] The present invention relates to an active substance release system containing two compounds. The first compound comprises a nanoparticle, combined with an oligonucleotide inhibition strand that is hybridized with a catalytically active nucleic acid. The second compound comprises a carrier, combined with a substrate molecule that is coupled to a therapeutic active substance. By means of external stimulation, the catalytically active nucleic acid of the first compound is released and specifically binds to the substrate molecule of the second compound. This leads to cleavage of the substrate molecule, whereby the active substance bound thereto is released.

IPC 8 full level
A61K 9/00 (2006.01); **A61K 9/16** (2006.01); **A61K 9/51** (2006.01); **A61K 41/00** (2006.01); **A61K 47/48** (2006.01); **B82Y 5/00** (2011.01)

CPC (source: EP US)
A61K 9/0009 (2013.01 - EP US); **A61K 9/1676** (2013.01 - EP US); **A61K 9/513** (2013.01 - EP US); **A61K 41/0028** (2013.01 - EP US); **A61K 47/549** (2017.07 - EP US); **A61K 47/556** (2017.07 - EP US); **A61K 47/6923** (2017.07 - EP US); **A61P 29/00** (2017.12 - EP); **A61P 31/00** (2017.12 - EP); **A61P 31/04** (2017.12 - EP); **A61P 35/00** (2017.12 - EP); **A61P 37/02** (2017.12 - EP); **A61P 37/06** (2017.12 - EP)

Citation (search report)
See references of WO 2011082796A2

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

DOCDB simple family (publication)
WO 2011082796 A2 20110714; WO 2011082796 A3 20120503; AU 2010341118 A1 20120719; CA 2784704 A1 20110714; CN 102711727 A 20121003; CN 102711727 B 20150318; DE 102009058769 A1 20110622; DE 102009058769 A8 20120405; EP 2512441 A2 20121024; JP 2013514289 A 20130425; RU 2012129977 A 20140127; US 2013102545 A1 20130425; US 9517272 B2 20161213

DOCDB simple family (application)
EP 2010007702 W 20101216; AU 2010341118 A 20101216; CA 2784704 A 20101216; CN 201080056951 A 20101216; DE 102009058769 A 20091216; EP 10796285 A 20101216; JP 2012543525 A 20101216; RU 2012129977 A 20101216; US 201013515173 A 20101216