

Title (en)

MAGNETIC NANOPARTICLES HAVING BIOCHEMICAL ACTIVITY, METHOD FOR THE PRODUCTION THEREOF AND THEIR USE

Title (de)

MAGNETISCHE NANOTEILCHEN MIT BIOCHEMISCHER WIRKSAMKEIT UND VERFAHREN ZU IHRER HERSTELLUNG SOWIE IHRE VERWENDUNG

Title (fr)

NANOPARTICULES MAGNETIQUES A EFFET BIOCHIMIQUE, LEUR PROCEDE DE PRODUCTION ET LEUR UTILISATION

Publication

EP 1216060 A2 20020626 (DE)

Application

EP 00979466 A 20000914

Priority

- DE 19944971 A 19990914
- EP 0009004 W 20000914

Abstract (en)

[origin: DE10046508A1] Magnetic nanoparticles (A) with biochemical activity comprises a magnetic core particle (I) and an attached covering layer (C), and includes a group Z, i.e. nucleic acid, protein and/or peptide (or their derivatives), having at least one structure that binds specifically with a binding domain in an intracellular biomolecule. Magnetic nanoparticle (A) with biochemical activity comprises a magnetic core particle (I) and an attached covering layer (C). (A) comprise a compound of formula M-S-L-Z. Z = nucleic acid, protein and/or peptide (or their derivatives), having at least one structure that binds specifically with a binding domain in an intracellular biomolecule; M = magnetic core; S = biocompatible substrate; L = linker. Independent claims are also included for the following: (a) dispersion of (A) in a carrier liquid; (b) biochemically active compound of formula S-L-Z (II); (c) methods for preparing (A); and (d) method for preparing (II).

IPC 1-7

A61K 47/48

IPC 8 full level

A61K 47/48 (2006.01); **A61K 49/00** (2006.01); **C07K 17/14** (2006.01); **C12M 1/00** (2006.01); **G01N 33/48** (2006.01); **G01N 33/536** (2006.01); **G01N 33/553** (2006.01)

CPC (source: EP US)

A61K 47/6923 (2017.07 - EP US); **B82Y 5/00** (2013.01 - EP US); **Y10T 428/2982** (2015.01 - EP US); **Y10T 428/2989** (2015.01 - EP US); **Y10T 428/2991** (2015.01 - EP US); **Y10T 428/2998** (2015.01 - EP US)

Citation (search report)

See references of WO 0119405A2

Cited by

EP2674106A2

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)

DE 10046508 A1 20010405; AU 1694301 A 20010417; BR 0014252 A 20021119; CA 2384429 A1 20010322; CN 1379687 A 20021113; EP 1216060 A2 20020626; JP 2003509034 A 20030311; US 6767635 B1 20040727; WO 0119405 A2 20010322; WO 0119405 A3 20020411

DOCDB simple family (application)

DE 10046508 A 20000914; AU 1694301 A 20000914; BR 0014252 A 20000914; CA 2384429 A 20000914; CN 00813707 A 20000914; EP 0009004 W 20000914; EP 00979466 A 20000914; JP 2001523036 A 20000914; US 8843702 A 20020524