Title (en)

SELECTIVE COVALENT-BINDING COMPOUNDS HAVING THERAPEUTIC DIAGNOSTIC AND ANALYTICAL APPLICATIONS

Title (de)

SELEKTIVE, KOVALENT BINDENDE VERBINDUNGEN MIT THERAPEUTISCHEN, DIAGNOSTISCHEN UND ANALYTISCHEN ANWENDUNGEN

Title (fr)

COMPOSES SELECTIFS A LIAISON COVALENTE AYANT DES APPLICATIONS THERAPEUTIQUES, DIAGNOSTIQUES ET ANALYTIQUES

Publication

EP 1385988 A2 20040204 (EN)

Application

EP 02761961 A 20020416

Priority

- IL 0200307 W 20020416
- US 28364501 P 20010416

Abstract (en)

[origin: WO02083708A2] Novel compounds are provided having enhanced affinity for a desired, preselected, target substance (a small molecule; a macromolecule such as a protein, a carbohydrate, a nucleic acid, a cell, a viral particle, etc.) by modification with chemical groups that allow these substances to form stong bonds, such as irreversible covalent bonds, with the desired target substance. These qualities of tight, specific binding are eminiscent of antibody-like affinity; hence the new substances are termed COBALT, and acronym for <u>Co</u>valent-<u>B</u>inding <u>A</u>ntibody-<u>L</u>ike <u>Trap</u>. The present invention includes a process wherein a target species is chosen and then, by synthetic chemical procedures and modifications, novel substances (COBALTs) are obtained that exhibit selective and covalent binding to the preselected target species. The applications of the COBALTs include diagnostic, analytical, therapeutic and industrial applications.

IPC 1-7

C12Q 1/00; G01N 33/53; C07K 16/00

IPC 8 full level

A61K 47/48 (2006.01); **G01N 33/53** (2006.01); **A61K 39/395** (2006.01); **A61P 31/12** (2006.01); **G01N 33/531** (2006.01)

CPC (source: EP)

A61P 31/12 (2017.12); **G01N 33/531** (2013.01); G01N 2600/00 (2013.01)

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

WO 02083708 A2 20021024; **WO 02083708 A3 20031023**; CA 2446921 A1 20021024; EP 1385988 A2 20040204; EP 1385988 A4 20080409; IL 158430 A0 20040512; JP 2004525973 A 20040826

DOCDB simple family (application)

IL 0200307 W 20020416; CA 2446921 A 20020416; EP 02761961 A 20020416; IL 15843002 A 20020416; JP 2002581463 A 20020416