Title (en)

TARGETING SINGLE EPITOPES

Title (de)

ZIELGERICHTETEN EINZIGEN EPITOPEN

Title (fr)

EPITOPES UNIQUES DE CIBLAGE

Publication

EP 1572740 A2 20050914 (EN)

Application

EP 03778264 A 20031211

Priority

- DK 0300859 W 20031211
- DK PA200201893 A 20021211
- DK PA200300198 A 20030212
- US 43253202 P 20021211
- US 44670703 P 20030212

Abstract (en)

[origin: WO2004052930A2] The invention relates to novel immunogenic agents that are capable of inducing specific B-cell immunity directed against one single epitope present in a self-antigen. The immunogenic agent is a chimeric binding protein that binds specifically to a first receptor, said first receptor being one that binds a second receptor present in an antigen of an animal, wherein said chimeric binding protein comprises: (a) a B-cell epitope in the form of a binding site that specifically binds the first receptor and which competes with the second receptor for binding to the first receptor, (b) a scaffold protein structure being autologous in said mammal, and (c) at least one tolerance breaking amino acid sequence, which is heterologous in said animal and which binds to an MHC Class II molecule in said animal. In preferred embodiments, the chimeric binding protein is in the form of an anti-idiotypic antibody having a tolerance-breaking aminoacid sequence introduced. The invention further relates to methods of preparing the immunogens and methods of using the immunogens in therapy. Also, the invention relates to proteins, nucleic acid fragments, recombinantly modified host cells and virus that are useful in the practice of the methods of the invention.

IPC 1-7

C07K 14/705; C07K 14/54; C07K 7/08; A61K 39/385; A61K 9/127; A61K 47/48

IPC 8 full level

C07K 14/00 (2006.01); **C07K 14/11** (2006.01); **C07K 14/33** (2006.01); **C07K 14/34** (2006.01); **C07K 14/445** (2006.01); **C07K 14/47** (2006.01); **C07K 14/525** (2006.01); **C07K 14/705** (2006.01); **C07K 14/71** (2006.01); **C07K 14/76** (2006.01); **C07K 14/79** (2006.01); **C07K 14/81** (2006.01); **C07K 19/00** (2006.01)

CPC (source: EP)

C07K 14/001 (2013.01); **C07K 14/005** (2013.01); **C07K 14/33** (2013.01); **C07K 14/34** (2013.01); **C07K 14/445** (2013.01); **C07K 14/4711** (2013.01); **C07K 14/525** (2013.01); **C07K 14/70553** (2013.01); **C07K 14/70596** (2013.01); **C07K 14/71** (2013.01); **C07K 14/76** (2013.01); **C07K 14/79** (2013.01); **C07K 14/8107** (2013.01); **C07K 19/00** (2013.01); A61K 2039/64 (2013.01); C07K 2319/00 (2013.01); C12N 2760/16022 (2013.01)

Citation (search report)

See references of WO 2004052930A2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2004052930 A2 20040624; **WO 2004052930 A3 20040729**; AU 2003285280 A1 20040630; CA 2505870 A1 20040624; EP 1572740 A2 20050914; MX PA05006113 A 20050930; NO 20053363 D0 20050711; NO 20053363 L 20050711

DOCDB simple family (application)

DK 0300859 W 20031211; AU 2003285280 A 20031211; CA 2505870 A 20031211; EP 03778264 A 20031211; MX PA05006113 A 20031211; NO 20053363 A 20050711