

Title (en)

PROTEIN CONJUGATES, METHODS, VECTORS, PROTEINS AND DNA FOR PRODUCING THEM, THEIR USE, AND MEDICAMENTS AND VACCINES CONTAINING A CERTAIN QUANTITY OF SAID PROTEIN CONJUGATES

Title (de)

PROTEINKONJUGATE AUF BASIS VON LUMAZINSYNTASE, VERFAHREN ZU DEREN HERSTELLUNG UND DEREN VERWENDUNG

Title (fr)

CONJUGUES PROTEIQUES, PROCEDES, VECTEURS, PROTEINES ET ADN NECESSAIRES A LEUR PRODUCTION, LEUR UTILISATION ET MEDICAMENTS ET VACCINS CONTENANT UNE CERTAINE QUANTITE DE CES CONJUGUES

Publication

**EP 1181377 A2 20020227 (DE)**

Application

**EP 00920476 A 20000303**

Priority

- DE 19910102 A 19990308
- EP 0001899 W 20000303

Abstract (en)

[origin: WO0053229A2] The invention relates to protein conjugates, methods, vectors, proteins and DNA for producing them, their use, and medicaments and vaccines containing a certain quantity of said protein conjugates. According to the invention, supramolecular particles are produced that represent one or more different, randomly selectable structural units in a large number on the surface of an individual, approximately spherical protein molecule. Icosahedral lumazine synthases are used as carrier proteins for peptides or proteins. A DNA fragment that encodes a peptide molecule is fused with a DNA fragment that encodes an icosahedral lumazine synthase by molecular-biological methods. Said DNA fragment is inserted into a cloning vector and transformed with an appropriate host strain. A polypeptide is expressed by gene expression. If certain peptide structures are used as the fusion partners, a post-translational change of said structures can be observed in the host strain. The chimeric peptide is purified and chemically modified if necessary. It is possible to produce icosahedral molecules that contain up to 120 different peptide motifs on their surfaces by mixing. The compounds produced lend themselves as auxiliary agents for carrying out analytical methods (ELISA, biosensors) or for producing vaccines.

IPC 1-7

**C12N 15/62**; **C12N 15/54**; **C12N 9/10**; **A61K 47/48**

IPC 8 full level

**A61K 47/48** (2006.01); **C07K 14/245** (2006.01); **C12N 9/06** (2006.01); **C12N 9/10** (2006.01); **C12N 15/62** (2006.01); **A61K 39/00** (2006.01)

CPC (source: EP)

**A61K 47/646** (2017.08); **A61P 31/00** (2018.01); **C07K 14/245** (2013.01); **C12N 9/0012** (2013.01); **C12N 9/1085** (2013.01); **C12N 15/62** (2013.01); **A61K 39/00** (2013.01); **C07K 2319/00** (2013.01); **C07K 2319/24** (2013.01); **C07K 2319/43** (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

DOCDB simple family (publication)

**WO 0053229 A2 20000914**; **WO 0053229 A3 20011129**; AU 4104000 A 20000928; DE 19910102 A1 20000928; DE 19910102 B4 20060601; EP 1181377 A2 20020227

DOCDB simple family (application)

**EP 0001899 W 20000303**; AU 4104000 A 20000303; DE 19910102 A 19990308; EP 00920476 A 20000303