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 LUMAZINSYNTHASE, 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

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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.

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