

Title (en)

IMMUNOGENIC DETOXIFIED MUTANTS OF CHOLERA TOXIN

Title (de)

IMMUNOGENE ENTOXIFIZIERTE MUTANTEN DES CHOLERATOXINS

Title (fr)

MUTANTS DETOXIQUES ET IMMUNOGENES DE TOXINE DU CHOLERA

Publication

EP 0880361 A1 19981202 (EN)

Application

EP 97902552 A 19970217

Priority

- GB 9603314 A 19960216
- IB 9700183 W 19970217

Abstract (en)

[origin: WO9729771A1] An immunogenic detoxified protein comprising the amino acid sequence of subunit A of a cholera toxin (CT-A) or a fragment thereof in which at least one amino acid is substituted with another amino acid characterized in that, in purified form, the immunogenic detoxified protein exhibits a residual toxicity greater than 10000 fold lower than its naturally occurring counterpart. In the described embodiment, the amino acid at, or in a position corresponding to Pro-106 is replaced with another amino acid. The immunogenic detoxified protein is useful as vaccine for *Vibrio cholerae* and is produced by recombinant DNA means by site-directed mutagenesis.

IPC 1-7

A61K 39/106; C07K 14/28; C12N 15/31

IPC 8 full level

C12N 15/09 (2006.01); **A61K 39/106** (2006.01); **C07K 14/18** (2006.01); **C07K 14/28** (2006.01); **C07K 16/12** (2006.01); **C12N 1/15** (2006.01);
C12N 1/19 (2006.01); **C12N 1/21** (2006.01); **C12N 5/10** (2006.01); **C12P 21/00** (2006.01); **A61K 39/00** (2006.01)

CPC (source: EP US)

C07K 14/28 (2013.01 - EP); **C07K 16/1239** (2013.01 - EP); **A61K 39/00** (2013.01 - EP US)

Cited by

WO0134193A1

Designated contracting state (EPC)

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

DOCDB simple family (publication)

WO 9729771 A1 19970821; CA 2244800 A1 19970821; EP 0880361 A1 19981202; GB 9603314 D0 19960417; JP 2000506002 A 20000523

DOCDB simple family (application)

IB 9700183 W 19970217; CA 2244800 A 19970217; EP 97902552 A 19970217; GB 9603314 A 19960216; JP 52915397 A 19970217