

Title (en)
ENCAPSULATED IMMUNOMODULATORS USEFUL AS VACCINE ADJUVANTS

Title (de)
EINGEKAPSELTE IMMUNOMODULATOREN ALS IMPFSTOFFADJUVANTIEN

Title (fr)
IMMUNOMODULATEURS ENCAPSULES UTILISES COMME ADJUVANTS DE VACCINS

Publication
EP 1027071 A2 20000816 (EN)

Application
EP 98955231 A 19981102

Priority
• US 9823313 W 19981102
• US 96240797 A 19971031

Abstract (en)
[origin: WO9922763A2] The present invention concerns compositions comprising an encapsulated immunomodulator, such as cytokines and lymphokines, that is useful as an adjuvant for stimulating an immune response when administered to a human or animal. For example, a lymphokine such as IL-1 alpha or IL-1 beta can be used as an immunomodulator encapsulated in a matrix according to the invention. The encapsulated composition can include a vaccine antigen, such as whole inactivated or attenuated virus, recombinant or synthetic peptides, and other antigenic materials. The encapsulation matrix can be natural or synthetic. The present invention also pertains to the use of an encapsulated immunomodulator in a human or animal as an adjuvant to increase immune responses to an antigen or other material to which an immune response is desired.

IPC 1-7
A61K 39/39; **A61K 9/127**; **A61K 38/20**; **A61K 39/145**; **A61K 39/00**

IPC 8 full level
C12N 7/00 (2006.01); **A61K 9/00** (2006.01); **A61K 9/127** (2006.01); **A61K 38/00** (2006.01); **A61K 38/20** (2006.01); **A61K 39/00** (2006.01); **A61K 39/145** (2006.01); **A61K 39/39** (2006.01); **A61K 45/00** (2006.01); **A61P 31/12** (2006.01); **C07K 14/54** (2006.01); **C07K 14/545** (2006.01)

CPC (source: EP)
A61K 9/127 (2013.01); **A61K 38/2006** (2013.01); **A61K 39/39** (2013.01); **A61P 31/12** (2017.12); **A61K 2039/55527** (2013.01); **A61K 2039/55533** (2013.01); **A61K 2039/55538** (2013.01); **A61K 2039/55555** (2013.01)

Citation (search report)
See references of WO 9922763A2

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 9922763 A2 19990514; **WO 9922763 A3 19990805**; AU 1208499 A 19990524; CA 2307541 A1 19990514; EP 1027071 A2 20000816; IL 135480 A0 20010520; JP 2001521908 A 20011113

DOCDB simple family (application)
US 9823313 W 19981102; AU 1208499 A 19981102; CA 2307541 A 19981102; EP 98955231 A 19981102; IL 13548098 A 19981102; JP 2000518694 A 19981102