

Title (en)

PROTEASE VACCINE AGAINST HEARTWORM.

Title (de)

PROTEASE IMPFSTOFF GEGEN DIROFILARIA IMMITIS.

Title (fr)

VACCIN A BASE DE PROTEASE ANTI-DIROFILARIA IMMITIS.

Publication

EP 0635058 A4 19941207 (EN)

Application

EP 92924400 A 19921112

Priority

- US 9209702 W 19921112
- US 79220991 A 19911112

Abstract (en)

[origin: WO9310225A1] The transition between the L3 and L4 larval stages of the nematode filarial parasites such as *Dirofilaria immitis* occurs after introduction into the animal host and is mediated by at least one metalloprotease and/or cysteine protease unique to the L3 or L4 larval stage. Methods to prevent and treat filarial infection are provided by vaccines comprised of the immunogenic determinants of the characteristic L3 or L4 proteases and by administration of inhibitors of these proteases.

IPC 1-7

C12N 15/57; C12N 9/64; A61K 38/46; A61K 39/00; A61K 38/55; C07K 15/00

IPC 8 full level

A61K 38/55 (2006.01); **A61K 39/002** (2006.01); **A61P 33/02** (2006.01); **A61P 33/10** (2006.01); **C12N 9/50** (2006.01); **C12N 9/64** (2006.01); **C12N 15/09** (2006.01); **A61K 39/00** (2006.01)

CPC (source: EP US)

A61P 33/02 (2018.01 - EP); **A61P 33/10** (2018.01 - EP); **C12N 9/6402** (2013.01 - EP); **C12N 9/641** (2013.01 - EP); **A61K 39/00** (2013.01 - EP US); **C07K 2319/00** (2013.01 - EP); **G01N 2333/4353** (2013.01 - EP); **G01N 2333/95** (2013.01 - EP); **G01N 2333/96402** (2013.01 - EP); **Y02A 50/30** (2018.01 - EP)

Citation (search report)

- [XY] EP 0434909 A2 19910703 - SYNERGEN INC [US]
- [A] WO 8706467 A1 19871105 - IMMUNOMED CORP [US]
- [A] US 4842999 A 19890627 - FULLER STEVEN A [CA], et al
- [PX] WO 9213560 A1 19920820 - UNIV COLORADO STATE RES FOUND [US], et al
- [Y] CHEMICAL ABSTRACTS, vol. 104, no. 23, 9 June 1986, Columbus, Ohio, US; abstract no. 204191, I. PETRALANDA: "Studies on a filarial antigen with collagenase activity" page 471; & MOL BIOCHEM. PARASITOL, vol. 19, no. 1, 1986, pages 51 - 59
- [Y] R. MAIZELS ET AL: "Prospects for new vaccines against helminth parasites", TRENDS IN BIOTECHNOLOGY., vol. 7, no. 11, November 1989 (1989-11-01), CAMBRIDGE GB, pages 316 - 321, XP023595439, DOI: doi:10.1016/0167-7799(89)90114-5
- [PY] J. RICHER ET AL: "Dirofilaria immitis: proteases produced by third- and fourth - stage larvae", EXP. PARASITOLOGY, vol. 75, no. 2, September 1992 (1992-09-02), pages 213 - 222, XP026225098, DOI: doi:10.1016/0014-4894(92)90181-9
- See also references of WO 9310225A1

Designated contracting state (EPC)

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

DOCDB simple family (publication)

WO 9310225 A1 19930527; AU 3072392 A 19930615; AU 675214 B2 19970130; CA 2123420 A1 19930527; EP 0635058 A1 19950125; EP 0635058 A4 19941207; JP H07501219 A 19950209

DOCDB simple family (application)

US 9209702 W 19921112; AU 3072392 A 19921112; CA 2123420 A 19921112; EP 92924400 A 19921112; JP 50938293 A 19921112