

Title (en)
USES OF INTERLEUKIN-4 AND METHOD FOR PURIFYING IT.

Title (de)
ANWENDUNGEN VON INTERLEUKIN-4 AND METHODE SEINER REINIGUNG.

Title (fr)
UTILISATIONS DE L'INTERLEUCINE-4 ET METHODE DE PURIFICATION.

Publication
EP 0484380 A1 19920513 (EN)

Application
EP 90911066 A 19900726

Priority
US 38693789 A 19890728

Abstract (en)
[origin: EP0410750A2] Methods for increasing the numbers of neutrophils and for inducing the maturation of myeloid cells in mammals by administering IL-4 are disclosed. Also disclosed are processes for purifying active recombinant human interleukin-4 from certain E. coli fermentation broths or from certain CHO-cell culture mediums.

Abstract (fr)
On décrit des procédés qui servent à augmenter les quantités de polynucléaires neutrophiles ainsi qu'à provoquer la maturation de cellules myéloïdes chez les mammifères par l'administration de l'interleucine-4. Sont également décrits des procédés de purification de l'interleucine-4 humaine recombinante et active à partir de certains bouillons de fermentation de E. coli ou de certains milieux de culture cellulaire de cellules CHO.

IPC 1-7
A61K 37/02; A61K 37/66; C07K 3/28; C12N 15/24; C12P 21/02

IPC 8 full level
C12N 5/00 (2006.01); **A61K 38/00** (2006.01); **A61P 7/00** (2006.01); **A61P 35/00** (2006.01); **A61P 37/00** (2006.01); **A61P 43/00** (2006.01); **C07K 1/16** (2006.01); **C07K 14/00** (2006.01); **C07K 14/52** (2006.01); **C07K 14/53** (2006.01); **C07K 14/535** (2006.01); **C07K 14/54** (2006.01); **C07K 14/545** (2006.01); **C07K 14/55** (2006.01); **C12N 15/09** (2006.01); **C12N 15/24** (2006.01); **C12P 21/00** (2006.01); **C12P 21/02** (2006.01); **C12R 1/91** (2006.01)

IPC 8 main group level
C07K (2006.01)

CPC (source: EP KR)
A61K 38/00 (2013.01 - KR); **A61P 7/00** (2017.12 - EP); **A61P 35/00** (2017.12 - EP); **A61P 37/00** (2017.12 - EP); **A61P 43/00** (2017.12 - EP); **C07K 14/5406** (2013.01 - EP); **A61K 38/00** (2013.01 - EP)

Citation (search report)
See references of WO 9101744A2

Designated contracting state (EPC)
AT BE CH DE DK ES FR GB IT LI LU NL SE

DOCDB simple family (publication)
EP 0410750 A2 19910130; EP 0410750 A3 19910619; EP 0410750 B1 19950308; AT E119395 T1 19950315; AT E135366 T1 19960315; AU 5476194 A 19940602; AU 6055890 A 19910311; AU 645514 B2 19940120; AU 661221 B2 19950713; CA 2064753 A1 19910129; DE 69017547 D1 19950413; DE 69017547 T2 19951102; DE 69025961 D1 19960418; DE 69025961 T2 19961031; DK 0410750 T3 19950710; DK 0618220 T3 19960722; EP 0484380 A1 19920513; EP 0618220 A1 19941005; EP 0618220 B1 19960313; ES 2072395 T3 19950716; ES 2089875 T3 19961001; FI 102039 B1 19981015; FI 102039 B 19981015; FI 920367 A0 19920128; FI 981585 A0 19900726; FI 981585 A 19980710; GR 3019707 T3 19960731; HK 185196 A 19961011; HU 215257 B 19981130; HU 9200254 D0 19920428; HU T60146 A 19920828; IL 121897 A0 19980310; IL 95201 A0 19910610; JP 2580391 B2 19970212; JP H04506299 A 19921105; JP H0940575 A 19970210; KR 100191223 B1 19990615; KR 920700670 A 19920810; NO 304555 B1 19990111; NO 920351 D0 19920127; NO 920351 L 19920327; OA 09649 A 19930515; RU 2082756 C1 19970627; SG 44544 A1 19971219; WO 9101744 A2 19910221; WO 9101744 A3 19910404; ZA 905896 B 19910424

DOCDB simple family (application)
EP 90308198 A 19900726; AT 90308198 T 19900726; AT 94105833 T 19900726; AU 5476194 A 19940128; AU 6055890 A 19900726; CA 2064753 A 19900726; DE 69017547 T 19900726; DE 69025961 T 19900726; DK 90308198 T 19900726; DK 94105833 T 19900726; EP 90911066 A 19900726; EP 94105833 A 19900726; ES 90308198 T 19900726; ES 94105833 T 19900726; FI 920367 A 19920128; FI 981585 A 19980710; GR 960401090 T 19960422; HK 185196 A 19961003; HU 25492 A 19900726; IL 12189797 A 19971007; IL 9520190 A 19900726; JP 15539796 A 19960617; JP 51047990 A 19900726; KR 910700321 A 19910327; NO 920351 A 19920127; OA 60137 A 19920128; SG 1996002001 A 19900726; SU 5011241 A 19900726; US 9004093 W 19900726; ZA 905896 A 19900726