

Title (en)

AFFINITY PURIFICATION METHODS INVOLVING AMINO ACID MIMETICS AS ELUTION REAGENTS.

Title (de)

AMINOSÄURE-MIMETIKA ALS ELUTIONSREAGENTIEN IN AFFINITÄTSREINIGUNGSMETHODEN.

Title (fr)

PROCEDES DE PURIFICATION PAR AFFINITE UTILISANT DES MIMETISMES D'ACIDES AMINES COMME REACTIFS D'ELUTION.

Publication

**EP 0663925 A1 19950726 (EN)**

Application

**EP 93923139 A 19930927**

Priority

- US 9309174 W 19930927
- US 95666092 A 19921002

Abstract (en)

[origin: WO9407912A1] Disclosed is a method of isolating a protein from a sample, involving (i) providing a first molecule which is capable of forming an affinity complex with the protein; (ii) contacting the sample with the first molecule under conditions which allow affinity complex formation; (iii) isolating the complex; (iv) treating the complex with a second molecule, the second molecule mimicking an amino acid residue of either the protein or the first molecule which is critical to the complex formation, so that the second molecule disrupts the complex; causing the release of the protein from the complex; and (v) isolating the protein. According to one embodiment, the amino acid mimetic imidazole is used as a very gentle elution reagent to disrupt a protein A-antibody fusion protein complex, a technique which has general application for the isolation of antibodies or recombinant antibody fusion proteins.

IPC 1-7

**C07K 1/00**; **C07K 17/14**; **C07K 15/28**

IPC 8 full level

**C07K 1/22** (2006.01); **C07K 14/31** (2006.01); **C07K 16/06** (2006.01); **C07K 16/14** (2006.01); **C07K 19/00** (2006.01)

CPC (source: EP)

**C07K 1/22** (2013.01); **C07K 16/065** (2013.01)

Designated contracting state (EPC)

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

DOCDB simple family (publication)

**WO 9407912 A1 19940414**; AU 5292693 A 19940426; CA 2146162 A1 19940414; EP 0663925 A1 19950726; EP 0663925 A4 19971119; JP H08503698 A 19960423; MX 9306174 A 19950131

DOCDB simple family (application)

**US 9309174 W 19930927**; AU 5292693 A 19930927; CA 2146162 A 19930927; EP 93923139 A 19930927; JP 50923193 A 19930927; MX 9306174 A 19931004