

Title (en)

METHOD FOR PREPARING A METAL-RADIONUCLIDE-LABELLED PROTEIN.

Title (de)

HERSTELLUNGSMETHODE EINES METALLRADIONUKLID MARKIERTEN PROTEINS.

Title (fr)

PROCEDE POUR PREPARER UNE PROTEINE MARQUEE PAR UN RADIONUCLEIDE DE METAL.

Publication

**EP 0654043 A4 19970716 (EN)**

Application

**EP 94915454 A 19940502**

Priority

- EP 94915454 A 19940502
- EP 93201249 A 19930503
- US 9405022 W 19940502

Abstract (en)

[origin: WO9425488A1] The invention relates to a method of preparing a metal-radionuclide-labelled protein or proteinaceous material, which is intended for diagnostic or therapeutic application, by reacting a protein or a proteinaceous material with a bifunctional agent for coupling the radionuclide to the protein or proteinaceous material, a protein conjugate being formed by reaction between bifunctional agent and free amino groups or mercapto groups in the protein or proteinaceous material, and then complexing the radionuclide with the conjugate thus formed to a radionuclide complex. The invention further relates to the labelled protein or proteinaceous material thus obtained, and to a kit for preparing a radiopharmaceutical composition, which kit comprises the above-mentioned polyfunctional agent or a protein conjugate formed by reaction of a protein or proteinaceous material with said polyfunctional agent.

IPC 1-7

**C07K 15/00**; **C07K 15/28**; **A61K 39/00**; **A61K 39/395**; **A61K 51/00**

IPC 8 full level

**A61K 39/00** (2006.01); **A61K 39/395** (2006.01); **A61K 51/00** (2006.01); **A61K 51/08** (2006.01)

CPC (source: EP)

**A61K 51/08** (2013.01); **A61K 51/081** (2013.01); **A61K 51/088** (2013.01); **A61K 2121/00** (2013.01); **A61K 2123/00** (2013.01)

Citation (search report)

- [XD] WO 8907456 A1 19890824 - MALLINCKRODT INC [US]
- [XY] US 5162505 A 19921110 - DEAN RICHARD T [US], et al
- [DX] WO 9107991 A1 19910613 - MALLINCKRODT MEDICAL INC [US]
- [XY] WO 8912625 A1 19891228 - CENTOCOR INC [US]
- [A] WO 9207876 A1 19920514 - HENNING BERLIN GMBH [DE]
- [DY] DE 2752720 A1 19780608 - SQUIBB & SONS INC
- [X] EP 0248506 A1 19871209 - MALLINCKRODT INC [US]
- [A] CHEMICAL ABSTRACTS, vol. 103, no. 25, 23 December 1985, Columbus, Ohio, US; abstract no. 215767, XP002027314 & HAYASHI YOSHIO ET AL.: "APPLICATION OF A NEW HETEROBIFUNCTIONAL CONJUGATING REAGENT, DNPVB AND A NEW SH-INTRODUCING REAGENT, MTPPT.", PEPT. CHEM., vol. 22ND, 1985, pages 19 - 22
- See references of WO 9425488A1

Designated contracting state (EPC)

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

DOCDB simple family (publication)

**WO 9425488 A1 19941110**; AU 6670894 A 19941121; CA 2141739 A1 19941110; EP 0654043 A1 19950524; EP 0654043 A4 19970716; MX PA94003278 A 20050401

DOCDB simple family (application)

**US 9405022 W 19940502**; AU 6670894 A 19940502; CA 2141739 A 19940502; EP 94915454 A 19940502; MX 9403278 A 19940503