

Ruth Rodriguez

Search history

Search 1: PN=(wo2013024013) (Results 1)

Search 2: [SP]: 1. process for the preparation of complexes of 68ga wherein the complexing reaction between a chelator-functionalized molecule and 68ga is carried out in a buffer formic acid/formate aqueous solution possibly in the presence of a compound capable of sequestering metal cations, wherein said compound able to sequester metal cations, if used, is added at the beginning of the complexing reaction. 2. process for the preparation of complexes of 68ga wherein the complexing reaction between a chelator-functionalized molecule and 68ga is carried out in a buffered aqueous solution in the presence of a sequestering agent. 3. a process according to claim 1 wherein said chelator-functionalized molecule is chosen in the group consisting of: dota and its derivatives, nota and its derivatives, pcta and its derivatives while said formate is sodium formate. 4. a process according to claim 1 wherein the ratio formic acid/formate in the labeling mixture is comprised between 1 and 3.5 5. a process according to claim 1 wherein said the sequestering agent is chosen in the group consisting of: glycine and other chelating aminoacids, crown ethers and nitrogen crown ethers, eterocyclic organic compound, calixarenes, polydentate chelator, natural chelating agents e.g. catechins, tannin, porphyrinin, linear or macrocyclic chelating agents. 6. a process according to claim 1 wherein the complexing reaction is carried out in a ph range between 3 and 4.5. 7. a process according to claim 6 wherein the reaction ph is more preferably comprised between 3.2 and 4.2. 8. a process according to claim 6 wherein the reaction ph is most preferably between 3.4 and 4.0. 9. process according to claim 1 wherein: a commercial generator of 68ga is eluted with an eluate containing an acid directly into a vial containing buffer formate and a base a chelator-functionalized molecule is added into the vial and the reaction vial is heated for a short time the product is collected. 10. process according to claim 1 wherein: a commercial generator of 68ga is eluted with an eluate containing an acid directly into a vial containing a chelator-functionalized molecule buffer formate and a base are added into the vial and the reaction vial is heated for a short time the product is collected. 11. process according to claim 7 wherein the acid eluate is an aqueous solution of hcl, while the base is an aqueous solution of naoh. 12. a reaction kit comprising: a vial containing the chelator-functionalized molecule and a compound capable of sequestering metal cations a vial or a syringe containing a suitable ultra-pure formic acid/sodium formate mixture. 13. a vial containing a chelator-functionalized molecule, a selected compound capable of sequestering metal cations and a suitable ultra-pure formic acid/sodium formate mixture 14. a reaction kit according to claim 11 and a vial according to claim 13 wherein said vials are siliconized vials. 15. complexes of 68ga, obtained by the process, according to claim 1, characterized in that they contain less than 10 mg/ml formate/formic acid and, if used, less than 100 nmols of sequestering agent. 16. a process according to claim 2 wherein said chelator-functionalized molecule is chosen from the group consisting of: dota and its derivatives, nota and its derivatives, pcta and its derivatives while said formate is sodium formate. 18. a process according to claim 2 wherein the ratio formic acid/formate in the labeling mixture is comprised between 1 and 3.5 (Results 4)

Search 3: TAC=((process OR preparation) AND 68GA complexes) and PN=(wo2013024013) and CPC=(A61K51/0482) (Results 0)

Search 4: TAC=((process OR preparation) AND 68GA complexes) and CPC=(A61K51/0482) (Results 0)

Search 5: TAC=(preparation AND 68GA) and CPC=(A61K51/0482) (Results 23)

Title: 1-substituted-1,4,7-triscarboxymethyl-1,4,7,10-tetraazacyclododecane and analogs

Abstract: Source: US4885363A Metal-chelating ligands having the formula or a salt thereof, wherein Y is oxygen or R1 is hydrogen C1-C10 alkyl, aryl-(C1-C10)alkyl, aryl, C1 to C10 alkoxy, hydroxyalkyl with 1 to 10 carbon atoms wherein G is NH2, NCS, NHR4,N(R4)2,CN, wherein R4 is (C1-C10)alkyl or hydroxyalkyl, with 1 to 10 carbon atoms, wherein n and m are zero or an integer from one to five, R2 is hydrogen or C1 to C10 alkyl, R3 is hydrogen, hydroxyalkyl, with 1 to 10 carbon atoms, C1-C10 alkoxy, C1-C10 alkyl, aryl or aryl-(C1-C10)alkyl and X is chloro, bromo or iodo.

FDA Data:

Application numberActive ingredientProprietary nameApplicantDate of approval020131 GADOTERIDOL PROHANCE BRACCO
Nov 16, 1992021489 GADOTERIDOL PROHANCE MULTIPACK BRACCO Oct 9, 2003

Classifications:

International (IPC 8-9): A61K49/00 A61K49/04 A61K49/06 A61K51/00 A61K51/04 C07B31/00 C07B59/00 C07C67/00 C07D255/02 C07D257/00 C07D257/02 C07D273/00 C07D403/04 C07D403/06 C07D403/14 C07F11/00 C07F13/00 C07F15/02 C07F5/00 C07F9/94 (Advanced/Invention);

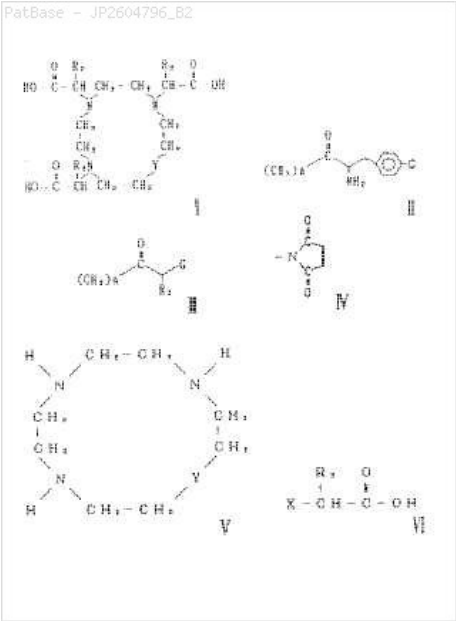
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International (IPC 1-7): A61B5/055 A61K43/00 A61K49/00 A61K49/02 A61K49/04 A61K51/00 C07B59/00 C07D255/02 C07D257/00 C07D257/02 C07D273/00 C07D403/04 C07D403/06 C07D403/10 C07D403/14 C07F11/00 C07F13/00 C07F15/02 C07F5/00 C07F9/94 G01N33/58

CPC: Y10S436/806 Y10S514/836 A61K49/06 A61K51/0476 A61K51/0482 C07B59/002 C07D257/00 C07D257/02 C07D273/00 C07F5/003 C07F9/94 C07F11/005 C07F13/005 C07F15/025 Y10T436/24

European: 124Z15 A61K49/06 A61K51/04 A61K51/04L12 A61K51/04L4 C07B59/00D C07D257/00 C07D257/02 C07D273/00 C07F11/00B C07F13/00B C07F15/02B C07F5/00B C07F9/94

US: 128/653.4 424/1.53 424/1.65 424/179.1 424/55 424/607 424/9.363 424/9.42 424/9.5 436/173 436/806 514/184 514/836 530/391.5 534/10 534/11 534/12 534/13 534/14 534/15 534/16 540/465 540/467 540/474 600/420 987/20



Family:

Publication number	Publication date	Application number	Application date
CA1296715 A1	19920303	CA19880562796	19880329
DE3772785 D1	19911017	DE19873772785	19870119
DE3855451 D1	19960905	DE19883855451	19880418
DE3855451 T2	19970109	DE19883855451T	19880418
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MX174467 B	19940517	MX19920002168	19920511
US4885363 A	19891205	US19870137267	19871223
US5474756 A	19951212	US19940359960	19941220
US5674470 A	19971007	US19950469546	19950606
US5846519 A	19981208	US19950471591	19950606
US6143274 A	20001107	US19950469544	19950606

Priority:

US19860821725 19860123	US19870042416 19870424	US19940359960 19941220
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US19950469544 19950606	US19950469546 19950606	US19950471591 19950606

Probable Assignee: BRACCO DIAGNOSTICS INC

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Designated states: BE CH DE FR GB IT LI LU NL SE

Abstract: Source: US5753627A Somatostatin peptides bearing at least one chelating group for a detectable element, said chelating group being linked to an amino group of said peptide, and said amino group having no significant binding affinity for somatostatin receptors, in free or salt form, are complexed with a detectable element and are useful as a pharmaceutical, e.g. a radiopharmaceutical for in vivo imaging of somatostatin receptor positive tumors or for therapy.

550/520

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JP2184698 A2	19900719	JP19890315124	19891204
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Probable Assignee: NOVARTIS SUCCESSOR TO SANDOZ LTD BY OPERATION OF SWISS LAW AG

Assignee(s): (std): NOVARTIS ERFINDUNGEN VERWALTUN ; NOVARTIS ERFINDE VERWALT GMBH ; NOVARTIS BASEL AG ; NOVARTIS NOVARTIS NOVART AG SA ; NOVARTIS AG ; SANDOZ SA ; PLESS JANOS ; SANDOZ LTD ; SANDOZ AG ; CIBA GEIGY AG ; KRENNING ERIC P ; LAMBERTS STEVEN W J ; SHEEHAN BRENDAN ; ALBERT RAINER

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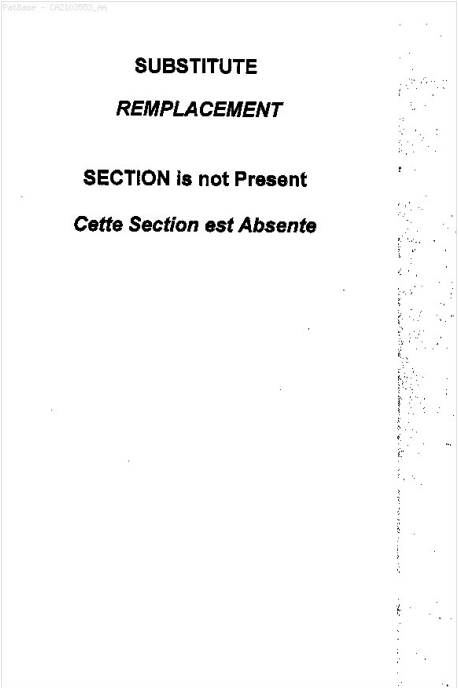
Designated states: AT BE CH DE FR GB IT LI NL

Title: Bicyclopolyazamacrocyclocarboxylic acid complexes their conjugates processes for their **preparation** and use as radiopharmaceuticals

Abstract: Source: ZA9209578A Complexes of bicyclopolyazamacrocyclocarboxylic acid compounds with a metal ion, e.g. Sm, Lu, Gd, Pm, La, Yb, Ho, Y, Sc, Re, Re, Pr, Tc, Ga, Ga, Rh, Ru, In, In or In ion, are disclosed. The complexes can be covalently attached to a biologically active molecule, e.g. an antibody or antibody fragment, to form conjugates. The complexes and conjugates are useful as radiopharmaceutical agents for therapy and/or diagnostic purposes. Processes to prepare the complex and conjugate are discussed.

Classifications:

International (IPC 8-9): A61K47/48 A61K51/04 A61K51/10 C07B59/00 C07D471/08 C07D487/08 C07F13/00 C07F15/00 C07F5/00 C07K1/13 C07K14/00 C07K16/00 C08B37/02 (Advanced/Invention); A61K51/02 C07B59/00 C07D471/00 C07D487/00 (Core/Invention)
International (IPC 1-7): A61K31/435 A61K43/00 A61K47/48 A61K49/00 A61K49/02 C07D221/00 C07D257/00 C07D471/06 C07D471/08 C07D487/06 C07D487/08 C07F11/00 C07F13/00 C07F15/00 C07F3/00 C07F5/00 C07F7/00 C07K1/13 C07K14/00 C07K16/00 C08B37/02
CPC: A61K51/0482 A61K51/1093 A61K2121/00 A61K2123/00 C07B59/004 C07D471/08 C07D487/08
European: A61K51/04 A61K51/04L12 A61K51/10Z C07B59/00F C07D471/08 C07D487/08 K61K121/00 K61K123/00



Family:

Publication number	Publication date	Application number	Application date
AU199332752 A1	19930719	AU19930032752	19921210
CA2103553 AA	19930806	CA19922103553	19921210
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RU93054509 A	19961010	RU19930054509	19930809
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Priority:

US19910805392 19911210 WO1992US10663 19921210

Probable Assignee: DOW CHEMICAL CO

Assignee(s): (std): DOW CHEMICAL CO

Assignee(s): DOW CHEMICAL COMPANY THE ; KIEFER GARRY E ; SIMON JAIME ; THE DOW CHEMICAL CO US ; THE DOW CHEMICAL COMPANY

Inventor(s): (std): KIEFER GARRY E ; SIMON JAIME

Inventor(s): SIMON JAIME US ; KIEFER GARRY E US ; GARRY E KIEFER ; JAIME SIMON

Designated states: AT AU BE BR CA CH DE DK ES FI FR GB GR HU IE IT JP KR LI LU MC NL PT RU SE UA

Title: Bicyclopolyazamacrocyclophosphonic acid complexes for use as radiopharmaceuticals

Abstract: Source: US5428139A Complexes of bicyclopolyazamacrocyclophosphonic acid compounds with a metal ion, e.g. 153Sm, 177Lu, 159Gd, 149Pm, 140La, 175Yb, 166Ho, 90Y, 47Sc, 186Re, 188Re, 142Pr, 99mTc, 67Ga, **68Ga**, 105Rh, 97Ru, 111In, 113mIn or 115mIn ion, are disclosed. The complexes can be covalently attached to a biologically active molecule, e.g. an antibody or antibody fragment, to form conjugates. The complexes and conjugates are useful as radiopharmaceutical agents for therapy and/or diagnostic purposes.

Classifications:

International (IPC 8-9): A61K47/48 A61K51/00 A61K51/04 A61K51/10 C07B59/00 C07F13/00 C07F15/00 C07F5/00 C07F9/547 C07F9/6561 C07K1/13 C07K14/00 C07K16/00 C08B37/02 (Advanced/Invention); A61K51/00 C07F5/00 (Advanced/Non-invention); A61K51/00 A61K51/02 C07B59/00 C07F13/00 C07F5/00 C07F9/00 (Core/Invention)

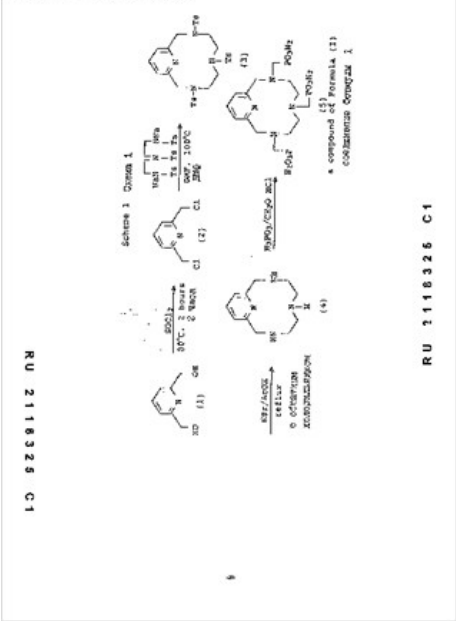
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CPC: A61K51/0482 A61K51/0489 A61K51/1093 A61K2121/00 A61K2123/00 C07B59/004 C07F9/6561 C07F13/005

European: A61K51/04L12 A61K51/04P A61K51/10Z C07B59/00F C07F13/00B C07F9/6561 K61K121/00 K61K123/00

US: 534/10 534/14

PatBase - RU2118325_C1



Family:

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Priority:

US19910806069 19911210 WO1992US10664 19921210

Probable Assignee: DOW CHEMICAL CO

Assignee(s): (std): DOW CHEMICAL CO

Assignee(s): DOW CHEMICAL COMPANY THE ; DOW GLOBAL TECHNOLOGIES INC ; DZE DAU KEMIKAL KOMPANI ; KIEFER GARRY E ; THE DOW CHEMICAL COMPANY ; THE DOW CHEMICAL CO US ; THE DOW CHEMICAL CO MIDLAND MICH US ; SIMON JAIME

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Designated states: AT AU BE BR CA CH DE DK ES FI FR GB GR HU IE IT JP KR LI LU MC NL PT RU SE UA

This family is part of an extended family. Please click here to view the extended family.

Title: Radiolabeled platelet GPIIb/IIIa receptor antagonists as imaging agents for the diagnosis of thromboembolic disorders

Abstract: Source: US5879657A This invention provides novel radiopharmaceuticals that are radiolabeled cyclic compounds containing carbocyclic or heterocyclic ring systems which act as antagonists of the platelet glycoprotein IIb/IIIa complex; to methods of using said radiopharmaceuticals as imaging agents for the diagnosis of arterial and venous thrombi; to novel reagents for the **preparation** of said radiopharmaceuticals; and to kits comprising said reagents.

Classifications:

International (IPC 8-9): A61K38/12 A61K49/04 A61K51/00 A61K51/04 A61K51/08 C07B59/00 C07D213/81 C07D213/82 C07D257/00 C07D259/00 C07D277/60 C07D401/00 C07D401/12 C07D401/14 C07D413/12 C07K14/75 C07K17/02 C07K5/10 C07K5/103 C07K7/56 C07K7/64 (Advanced/Invention);

A61K38/12 A61K49/04 A61K51/00 C07D259/00 C07K14/75 (Advanced/Non-invention)

International (IPC 1-7): A61K103/00 A61K103/10 A61K103/20 A61K12 A61K123/00 A61K49/02 A61K51/00 A61K51/04 A61K51/08 A61M36/14 C07B59/00 C07F13/00 C07K1/13 C07K17/02 C07K5/08 C07K5/10 C07K7/56 C07K7/64 G01N23/02 G01N23/04

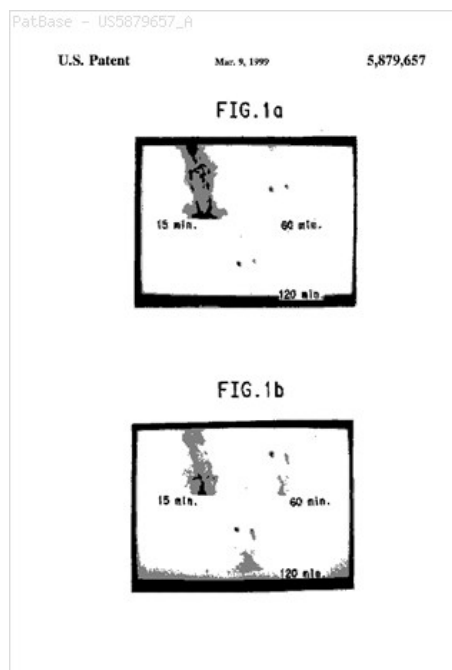
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US: 424/1.11 424/1.65 424/1.69 424/9.1



Family:

Publication number	Publication date	Application number	Application date
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WO9422494 A1	19941013	WO1994US03256	19940329

Priority:

US19930040336 19930330 US19940218861 19940328 AU19940065248 19940329
WO1994US03256 19940329

Probable Assignee: LANTHEUS MEDICAL IMAGING INC

Assignee(s): (std): DU PONT PHARM CO ; DU PONT MERCK PHARMA

Assignee(s): DU PONT MERCK PHARMACEUTICAL CO ; DUPONT PHARMACEUTICALS CO ; ABLECO FINANCE LLC AS COLLATERAL AGENT ; ABLECO FINANCE LLC COLLATERAL AGENT AS ; ACP LANTERN ACQUISITION INC ; BARRETT JOHN ANDREW ; BRISTOL MYERS SQUIBB MEDICAL IMAGING INC ; BRISTOL MYERS SQUIBB PHARMA CO ; DUPONT MERCK PHARMACEUTICAL CO ; DU PONT MERCK PHARMACEUTICAL COMPANY ; DU PONT MERCK PHARMACEUTICAL COMPANY THE ; DUPONT PHARMACEUTICALS COMPANY ; DU PONT PHARMACEUTICALS CO ; EDWARDS DAVID SCOTT ; DEGRADO WILLIAM FRANK ; HARRIS THOMAS DAVID ; THE DUPONT MERCK PHARMACEUTICAL COMPANY ; THE DU PONT MERCK PHARMACEUTICAL COMPANY ; LANTHEUS MEDICAL IMAGING INC ; LIU SHUANG ; SWORIN MICHAEL ; MOUSA SHAKER AHMED ; RAJOPADHYE MILIND

Inventor(s): (std): DEGRADO WILLIAM F ; DEGRADO WILLIAM FRANK ; EDWARDS DAVID S ; EDWARDS DAVID SCOTT ; EDWARDS SCOTT DAVID ; HARRIS THOMAS D ; HARRIS THOMAS DAVID ; LIU SHUANG ; LIU SHVANG ; MOUSA SHAKER A ; MOUSA SHAKER AHMED ; RAJOPADHYE MILIND ; SHUANG LIU ; SWORIN MICHAEL ; BARRETT JOHN A ; BARRETT JOHN ANDREW

Inventor(s): DAVID SCOTT EDWARDS ; THOMAS DAVID HARRIS ; WILLIAM FRANK DEGRADO ; SHAKER AHMED MOUSA ; MICHAEL SWORIN ; MILIND RAJOPADHYE ; JOHN ANDREW BARRETT

Designated states: AT AU BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CZ DE DK ES FI FR GA GB GE GN GR HU IE IT JP KG KP KR KZ LK LU LV MC MD MG ML MN MR MW NE NL NO NZ PL PT RO RU SD SE SI SK SN TD TG TJ TT UA UZ VN

This family is part of an extended family. Please click here to view the extended family.

Title: RADIO LABELED PLATELET GPIIb/IIIa RECEPTOR ANTAGONISTS AS IMAGING AGENTS FOR THE DIAGNOSIS OF THROMBOEMBOLIC DISORDERS

Abstract: Source: EP0692982A4 This invention provides novel reagents for the **preparation** of radiopharmaceuticals useful as imaging agents for the diagnosis of cardiovascular disorders, infection, inflammation and cancer, diagnostic kits comprising said reagents and intermediate compounds useful for the **preparation** of said reagents. The reagents are comprised of stable hydrazone modified biologically active molecules that react with gamma emitting radioisotopes to form radiopharmaceuticals that selectively localize at sites of disease and thus allow an image to be obtained of the loci using gamma scintigraphy.

Classifications:

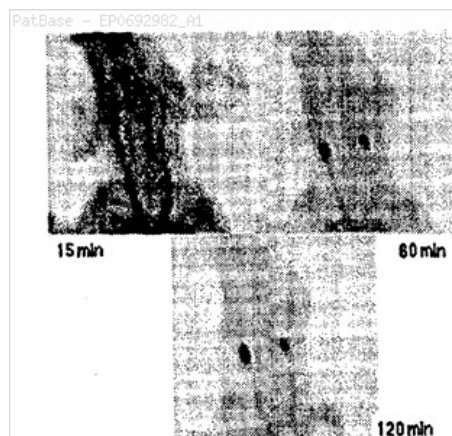
International (IPC 8-9): A61K38/12 A61K49/04 A61K51/00 A61K51/04 A61K51/08 C07B59/00 C07D213/82 C07D257/00 C07D259/00 C07D277/60 C07D401/00 C07D401/12 C07D401/14 C07D413/12 C07K14/75 C07K17/02 C07K5/10 C07K5/103 C07K7/64 (Advanced/Invention);

A61K38/12 A61K49/04 A61K51/00 C07D259/00 (Advanced/Non-invention)

International (IPC 1-7): A61K101/02 A61K103/10 A61K103/20 A61K123/00 A61K38/12 A61K49/02 A61K49/04 A61K51/00 A61K51/00 A61K51/04 A61K51/06 A61K51/08 A61K51/10 C07B59/00 C07D259/00 C07D401/12 C07D413/12 C07F13/00 C07K1/13 C07K105/00 C07K16/30 C07K17/02 C07K5/10 C07K5/103 C07K7/64 C07M7/00 C07M9/00

CPC: A61K51/082 C07K14/75 A61K51/04 A61K51/0482 A61K51/088 A61K2123/00 C07B59/008 C07D213/82 C07D401/12 C07D401/14

European: A61K51/04 A61K51/04112 A61K51/08Z C07B59/00K C07D213/82 C07D401/12 C07D401/14 C07K14/75 K61K123/00 M07K203/00



Family:

Publication number	Publication date	Application number	Application date
AT194293 E	20000715	AT19940912870T	19940329
AU199465248 A1	19941024	AU19940065248	19940329
BG100036 A	19961129	BG19950100036	19950929
BRPI9406055 A	19960910	BR1994PI06055	19940329
BRPI9406820 A	19960910	BR1994PI06820	19940329
DE69425138 D1	20000810	DE19946025138	19940329
DE69425138 T2	20010301	DE19946025138T	19940329
DK0692982 T3	20001023	DK19940912870T	19940329
EP0692982 A1	19960124	EP19940912870	19940329
EP0692982 A4	19980311	EP19940912870	19940329
EP0692982 B1	20000705	EP19940912870	19940329
FI954655 A	19951102	FI19950004655	19950929
FI954655 A0	19950929	FI19950004655	19950929
GR3034272 T3	20001229	GR20000401959T	20000830
JP3042887 B2	20000522	JP19940522205T	19940329
JP8509710 T2	19961015	JP19940522205T	19940329
KR19960701666 A	19960328	KR19950704228	19950929
LV11106 A	19960420	LV19950000296	19951027
LV11106 B	19970420	LV19950000296	19951027
NO307568 B1	20000425	NO19950003886	19950929
NO953886 A	19951130	NO19950003886	19950929
NO953886 A0	19950929	NO19950003886	19950929
RU2145608 C1	20000220	RU19950118183	19940329
RU95118183 A	19971020	RU19950118183	19951030
VN1203 A1	20000525	VN19950001460	19951030

Priority:

US19930040336 19930330 US19940218861 19940328 WO1994US03256 19940329

Probable Assignee: DU PONT MERCK PHARMA

Assignee(s): (std): DU PONT PHARM CO ; DU PONT MERCK PHARMA ; E I DJU PON MERK FARMATS JUTIK ; THE DU PONT MERCK PHARMACEUTICAL COMPANY

Assignee(s): E I DJU PON MERK FARMATS JUTIKAL KOMPANI ; E.I.DJU PON MERK FARMATS'JUTIKAL KOMPANI ; THE DU PONT MERCK PHARMACEUTICAL CO ; DU PONT MERCK PHARMACEUTICAL CO ; DU PONT MERCK PHARMACEUTICAL CO THE ; DUPONT PHARMACEUTICALS CO ; DUPONT PHARMACEUTICALS CO WILMINGTON ; DUPONT PHARMACEUTICALS COMPANY ; EIDJU PON MERK FARMATS JUTIKAL KOMPANI

Inventor(s): (std): SORIN MAJKL ; WILLIAM FRANK DEGRADO ; THOMAS DAVID HARRIS ; SHUANG LIU ; MOUSA SHALER AHMED ; MILIND RAJOPADHYE ; MICHAEL SWORIN ; JOHN ANDREW BARRETT ; DAVID SCOTT EDWARDS ; SWORIN MICHAEL ; RAJOPADHYE MILIND ; MOUSA SHAKER AHMED ; MOUSA SHAEKR A ; LIU SHUANG ; HARRIS THOMAS DAVID ; HARRIS THOMAS D ; EDWARDS DAVID SCOTT ; EDWARDS DAVID S ; DEGRADO WILLIAM FRANK ; DEGRADO WILLIAM F ; BARRETT JOHN ANDREW ; BARRETT JOHN A ; SHAKER AHMED MOUSA ; GRADO FRANK WILLIAM DE ; EDWARDS DEHVID SKOTT ; KHARRIS TOMAS DEHVID ; L JU SHUANG ; BARRET DZHON EHNDJRU ; DE GRADO UILL JAM FREHNK ; MAUSA SHAKER AMED ; RADZHOPAD E MAJLIND ; BARRETT ANDREW JOHN

Inventor(s): RADZHOPAD'E MAJLIND ; DE GRADO UILL'JAM FREHNK ; L'JU SHUANG ; DE GRADO WILLIAM FRANK

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

Title: BICYCLOPOLYAZAMACROCYCLOPHOSPHONIC ACID COMPLEXES, A PROCESS FOR THEIR **PREPARATION**, AND THEIR CONJUGATES, FOR USE AS RADIOPHARMACEUTICALS

Abstract: Complexes of bicyclopolyazamacrocyclophosphonic acid compounds with a metal ion, e.g. <153>Sm, <177>Lu, <159>Gd, <149>Pm, <140>La, <175>Yb, <166>Ho, <90>Y, <47>Sc, <186>Re, <188>Re, <142>Pr, <99m>Tc, <67>Ga, <68>Ga, <105>Rh, <97>Ru, <111>In, <113m>In or <115m>In ion, are disclosed. The complexes can be covalently attached to a biologically active molecule, e.g. an antibody or antibody fragment, to form conjugates. The complexes and conjugates are useful as radiopharmaceutical agents for therapy and/or diagnostic purposes. Processes for preparing the complex and conjugate are discussed.

Classifications:
International (IPC 8-9): A61K51/04 A61K51/10 C07F9/6561 (Advanced/Invention);
A61K51/02 C07F9/00 (Core/Invention)
International (IPC 1-7): A61K43/00 A61K47/48 A61K49/02 C07B59/00 C07F15/00 C07F9/6561
CPC: A61K51/0482 A61K51/1093 A61K2121/00 A61K2123/00 C07F9/6561
European: A61K51/04 A61K51/04L12 A61K51/10Z C07F9/6561 K61K121/00 K61K123/00

Family:

Publication number	Publication date	Application number	Application date
AU199342398 A1	19941212	AU19930042398	19930506
WO9426755 A1	19941124	WO1993US04356	19930506

Priority:
WO1993US04356 19930506

Probable Assignee: DOW CHEMICAL CO

Assignee(s): (std): DOW CHEMICAL CO

Assignee(s): THE DOW CHEMICAL COMPANY

Inventor(s): (std): KIEFER GARRY E ; SIMON JAIME

Inventor(s): GARRY E KIEFER ; JAIME SIMON

Designated states: AT AU BE BR CA CH DE DK ES FI FR GB GR HU IE IT JP KR LU MC NL PT RU SE UA

Title: BICYCLOPOLYAZAMACROCYCLOCARBOXYLIC ACID COMPLEXES, THEIR CONJUGATES, PROCESSES FOR THEIR **PREPARATION**, AND USE AS RADIOPHARMACEUTICALS

Abstract: Complexes of bicyclopolyazamacrocyclocarboxylic acid compounds with a metal ion, e.g. <153>Sm, <177>Lu, <159>Gd, <149>Pm, <140>La, <175>Yb, <166>Ho, <90>Y, <47>Sc, <186>Re, <188>Re, <142>Pr, <99m>Tc, <67>Ga, <68>Ga, <105>Rh, <97>Ru, <111>In, <113m>In or <115m>In ion, are disclosed. The complexes can be covalently attached to a biologically active molecule, e.g. an antibody or antibody fragment, to form conjugates. The complexes and conjugates are useful as radiopharmaceutical agents for therapy and/or diagnostic purposes. Processes to prepare the complex and conjugate are discussed.

Classifications:
International (IPC 8-9): A61K51/04 A61K51/10 (Advanced/Invention);
A61K51/02 (Core/Invention)
International (IPC 1-7): A61K43/00 A61K49/02
CPC: A61K51/0482 A61K51/1093 A61K2121/00 A61K2123/00
European: A61K51/04 A61K51/04L12 A61K51/10Z K61K121/00 K61K123/00

Family:

Publication number	Publication date	Application number	Application date
AU199342374 A1	19941212	AU19930042374	19930506
WO9426315 A1	19941124	WO1993US04311	19930506

Priority:
WO1993US04311 19930506

Probable Assignee: DOW CHEMICAL CO

Assignee(s): (std): DOW CHEMICAL CO

Assignee(s): THE DOW CHEMICAL COMPANY

Inventor(s): (std): KIEFER GARRY E ; SIMON JAIME

Inventor(s): GARRY E KIEFER ; JAIME SIMON

Designated states: AT AU BE BR CA CH DE DK ES FI FR GB GR HU IE IT JP KR LU MC NL PT RU SE UA

Title: Polychelants, their complexes with metal ions, their **preparation** and their uses

Abstract: Source: US6719958B A new class of polychelants, their chelates with metal ions and their physiologically acceptable salts, useful, either as they are or in association or formulation with other components, for diagnostic imaging as general or specific contrast agents for specific tissues, organs or body compartments.

Classifications:
International (IPC 8-9): A61K49/00 A61K49/06 A61K49/08 A61K51/00 A61K51/04 A61K51/08 C07C229/16 C07C229/76 C07C237/04 C07D257/02 C07F5/00 (Advanced/Invention); A61K49/00 A61K51/00 C07F5/00 (Advanced/Non-invention)
International (IPC 1-7): A61K31/33 A61K49/00 A61K49/12 A61K51/00 C07C229/16 C07C229/76 C07C237/04 C07D257/00 C07D257/02 C07F5/00
CPC: A61K49/06 A61K49/085 A61K49/122 A61K49/124 A61K49/14 A61K49/146 A61K51/0478 A61K51/0482 A61K51/088 A61K2123/00 C07C229/16 C07C229/76 C07D257/02
European: A61K49/06 A61K49/08Z A61K49/12D A61K49/12H A61K49/14 A61K49/14T A61K51/04 A61K51/04L12 A61K51/04L8 A61K51/08Z C07C229/16 C07C229/76 C07D257/02 K61K123/00
US: 424/9.363 514/183 514/184 534/15 534/16 540/465 540/474

Family:

Publication number	Publication date	Application number	Application date
AU199720946 A1	19970922	AU19970020946	19970303
EP0885202 A1	19981223	EP19970906153	19970303
EP1151997 A1	20011107	EP20010118591	19970303
IT1283218 B1	19980416	IT1996MI00458	19960308
ITMI960458 A0	19960308	IT1996MI00458	19960308
ITMI960458 A1	19970908	IT1996MI00458	19960308
JP2000506152 T2	20000523	JP19970531441T	19970303
US6719958 BA	20040413	US20000659593	20000911
WO9732862 A1	19970912	WO1997EP01048	19970303
ZA9701995 A	19980623	ZA19970001995	19970307

Priority:
IT1996MI00458 19960308 EP19970906153 19970303 WO1997EP01048 19970303

Probable Assignee: DIBRA SPA

Assignee(s): (std): BRACCO IMAGING SPA ; BRACCO SPA ; DIBRA SPA ; GOZZINI LUIGIA ; MAISANO FEDERICO ; MURRU MARCELLA

Assignee(s): DIBRA S P A ; BRACCO S P A ; BRACCO IMAGING S P A

Inventor(s): (std): GOZZINI LUIGIA ; MAISANO FEDERICO ; MAISANO FREDRICO ; MURRU MARCELLA

Inventor(s): MARCELLA MURRU ; LUIGIA GOZZINI ; FREDRICO MAISANO ; FEDERICO MAISANO

Designated states: AL AM AT AU AZ BA BB BE BF BG BR BY CA CH CN CU CZ DE DK EE ES FI FR GB GE GH GR HU IE IL IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MC MD MG MK MN MW MX NL NO NZ PL PT RO RU SD SE SG SI SK SZ TJ TM TR TT UA UG US UZ VN YU

Title: CONTRAST MEDIA FOR INFARCTION AND NECROSIS IMAGING

Abstract: Source: US6083479A The invention relates to new compounds that are suitable as contrast media especially for infarction and necrosis imaging, process for their production and pharmaceutical agents that contain these compounds.

Classifications:

International (IPC 8-9): A61K49/00 A61K49/06 A61K51/00 A61K51/04 C07B59/00 C07D257/02 (Advanced/Invention); A61K51/00 (Advanced/Non-invention); A61K49/00 A61K49/06 A61K51/00 A61K51/02 C07B59/00 C07D257/00 (Core/Invention)

International (IPC 1-7): A61B5/055 A61B6/00 A61K49/00 A61K49/04 A61K51/00 A61K51/04 A61K51/06 C07B59/00 C07D257/02 C07D259/00

CPC: Y10S514/836 A61K51/0478 A61K49/103 A61K49/106 A61K51/0482 C07B59/004 C07D257/02

European: A61K49/10C4 A61K49/10C8 A61K51/04 A61K51/04L12 A61K51/04L8 C07B59/00F C07D257/02

US: 424/1.65 424/9.363 424/9.42 514/184 514/836 534/16 540/465 540/474

PatBase - US6083479_A

U.S. Patent Jul. 4, 2000 Sheet 1 of 3 6,083,479



FIG. 1A



FIG. 1B

Family:

Publication number	Publication date	Application number	Application date
AT228116 E	20021215	AT19980946346T	19980817
AU199893428 A1	19990423	AU19980093428	19980817
CA2304458 AA	20000324	CA19982304458	19980817
DE19744003 A1	19990715	DE19971044003	19970926
DE19744003 B4	20040708	DE19971044003	19970926
DE59806371 D1	20030102	DE19985006371	19980817
DK1017684 T3	20030303	DK19980946346T	19980817
EP1017684 A1	20000712	EP19980946346	19980817
EP1017684 B1	20021120	EP19980946346	19980817
ES2188011 T3	20030616	ES19980946346T	19980817
JP2001518471 T2	20011016	JP20000513843T	19980817
NO20001556 A	20000523	NO20000001556	20000324
NO20001556 A0	20000324	NO20000001556	20000324
NO315514 B1	20030915	NO20000001556	20000324
PT1017684 T	20030331	PT19980946346T	19980817
US6083479 A	20000704	US19980157959	19980922
WO9916757 A1	19990408	WO1998EP05184	19980817

Priority:

DE19971044003 19970926 DE19985006371 19980817 WO1998EP05184 19980817

Probable Assignee: BAYER SCHERING PHARMA AG

Assignee(s): (std): SCHERING AG

Assignee(s): SCHERING AKTIENGESellschaft ; SCHERING AG 13353 BERLIN DE ; RADUCHEL BERND ; WEINMANN HANNS JOACHIM ; SCHERING 13353 BERLIN DE AG ; BAYER SCHERING PHARMA AG ; EBERT WOLFGANG ; NIEDBALLA ULRICH ; PLATZEK JOHANNES

Inventor(s): (std): NIEDBALLA ULRICH ; NIEDBALLA ULRICH DR ; PLATZEK JOHANNES ; PLATZEK JOHANNES DR ; RADUCHEL BERND ; RADUCHEL BERND DR ; RADUCHEL BERND ; RADUCHEL BERND DR ; EBEERT WOLFGANG ; EBERT WOLFGANG ; EBERT WOLFGANG DR ; WEINMANN HANNS JOACHIM ; WEINMANN HANNS JOACHIM DR ; WEINMANN HANS JOACHIM

Inventor(s): WOLFGANG EBEERT ; WOLFGANG EBERT ; HANNS JOACHIM WEINMANN ; JOHANNES PLATZEK ; ULRICH NIEDBALLA ; BERND RADUCHEL ; BERND RADUCHEL DR ; DR JOHANNES PLATZEK

Designated states: AL AM AT AU AZ BA BB BE BG BR BY CA CH CN CU CY CZ DE DK EE ES FI FR GB GE GH GM GR HR HU ID IE IL IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MC MD MG MK MN MW MX NL NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG UZ VN YU ZW

Title: Macrocylic chelants for metallopharmaceuticals

Abstract: Source: US2002004032A This invention relates to new macrocyclic chelants and metal chelates thereof, methods of preparing the chelants and metal chelates, and pharmaceutical compositions comprising the macrocyclic chelants and metal chelates. This invention relates particularly to the use of the new metal chelates as contrast agents in X-ray or CT, MRI imaging, and radiopharmaceuticals for the diagnosis of cardiovascular disorders, infectious disease and cancer. This invention also relates to new bifunctional chelants (BFCs) for attaching diagnostic metals and therapeutic isotopes to target-specific biomolecules such as proteins, peptides, peptidomimetics, and non-peptide receptor ligands. In addition, the macrocyclic chelants are useful for heavy metal detoxification.

Classifications:
International (IPC 8-9): A61K51/04 A61P29/00 A61P35/00 C07B59/00 C07D401/06 C07D403/06 C07F13/00 C07F5/00 (Advanced/Invention)
International (IPC 1-7): A61K49/12 A61K51/00 A61K51/04 A61K51/12 A61M36/14 A61P29/00 A61P35/00 C07D257/02 C07D401/06 C07F5/00
CPC: A61K51/0482 C07B59/002 C07B2200/05 C07D401/06 C07D403/06 C07F5/003 C07F13/005
European: A61K51/04 A61K51/04L12 C07B59/00D C07D401/06 C07D403/06 C07F13/00B C07F5/00B M07B200/05
US: 424/1.11 424/1.53 424/1.65 424/9.1 424/9.363 424/9.363P 534/10 534/14 534/15 540/474 540/474S

Family:

Publication number	Publication date	Application number	Application date
AU2001251441 AA	20011023	AU20010251441	20010406
AU200151441 A5	20011023	AU20010051441	20010406
US2002004032 AA	20020110	US20010826549	20010405
US6565828 BB	20030520	US20010826549	20010405
WO0177102 A1	20011018	WO2001US11388	20010406

Priority:
US20000195234P 20000407 US20010826549 20010405 WO2001US11388 20010406

Probable Assignee: LANTHEUS MEDICAL IMAGING INC

Assignee(s): (std): DU PONT PHARM CO ; SQUIBB BRISTOL MYERS CO

Assignee(s): PIASECKI AIRCRAFT CORP ; LANTHEUS MEDICAL IMAGING INC ; LIU SHUANG ; DU PONT PHARMACEUTICALS COMPANY ; DUPONT PHARMACEUTICALS CO ; DUPONT PHARMACEUTICALS COMPANY ; ABLECO FINANCE LLC AS COLLATERAL AGENT ; ABLECO FINANCE LLC COLLATERAL AGENT AS ; ACP LANTERN ACQUISITION INC ; BRISTOL MYERS SQUIBB COMPANY ; BRISTOL MYERS SQUIBB MEDICAL IMAGING INC ; BRISTOL MYERS SQUIBB PHARMA CO

Inventor(s): (std): LIU SHUANG

Inventor(s): SHUANG LIU

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CR CU CY CZ DE DK DM DZ EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

Title: Ascorbic acid analogs for metalloradiopharmaceuticals

Abstract: Source: US2002122769A The invention relates to the use of ascorbic acid analogs as buffering reagents and chelating agents for the **preparation** of metalloradiopharmaceuticals. Also, invention relates to the use of ascorbic acid as a buffering reagent, a chelating agent, and a stabilizer for the **preparation** and stabilization of radiopharmaceuticals and processes for making and using the same.

Classifications:
International (IPC 8-9): A61K47/10 A61K47/22 A61K51/00 A61K51/04 A61K51/12 A61M36/14 C07K1/13 C07K14/435 C07K14/705 C07K16/00 C07K2/00 (Advanced/Invention); C07K14/435 (Core/Invention)
International (IPC 1-7): A61K31/375 A61K31/4015 A61K47/10 A61K47/22 A61K51/00 A61M36/14 C07K1/13 C07K14/435 C07K14/705 C07K16/00 C07K2/00
CPC: A61K51/04 A61K51/0482 A61K51/0491 A61K51/121
European: A61K51/04 A61K51/04H A61K51/04L12 A61K51/04R A61K51/12C A61K51/12D
US: 424/1.11 424/1.110P 424/1.65 424/9.1 424/91 514/424 514/424S 514/474 514/474S 514/690 514/690S 548/400 548/401 549/200 549/201

Family:

Publication number	Publication date	Application number	Application date
AU2002253999 AA	20020912	AU20020253999	20020222
BRPI0207315 A	20040210	BR2002PI07315	20020222
CA2438204 AA	20030812	CA20022438204	20020222
CN1503680 A	20040609	CN20028008718	20020222
CZ20032597 A3	20041215	CZ20030002597	20020222
EP1365813 A2	20031203	EP20020723206	20020222
EP1365813 A4	20060322	EP20020723206	20020222
HU0304083 AB	20040329	HU20030004083	20020222
IL157359 A0	20040219	IL20020157359	20020222
IN01279DN2003 A	20070803	IN2003DN01279	20030812
JP2004529884 T2	20040930	JP20020567231T	20020222
MXPA03007595 A1	20031204	MX2003PA07595	20030822
US2002122769 AA	20020905	US20020081258	20020222
US6713042 BB	20040330	US20020081258	20020222
WO02067859 A2	20020906	WO2002US05155	20020222
WO02067859 A3	20021128	WO2002US05155	20020222

Priority:
US20010271389 20010226 US20010271389P 20010226 US20020081258 20020222
WO2002US05155 20020222

Probable Assignee: LANTHEUS MEDICAL IMAGING INC

Assignee(s): (std): BRISTOL MYERS SQUIBB PHARMA CO

Assignee(s): BRISTOL MYERS SQUIBB PHARMA CO PRINCETON ; BRISTOL MYERS SQUIBB PHARMA COMPANY ; BRISTOL MYERS SQUIBB PHARMA COMPANY PRINCETON ; DUPONT PHARMACEUTICALS CO ; LANTHEUS MEDICAL IMAGING INC ; LIU SHUANG ; WORLDWISE INC ; ABLECO FINANCE LLC AS COLLATERAL AGENT ; ABLECO FINANCE LLC COLLATERAL AGENT AS ; ACP LANTERN ACQUISITION INC ; BRISTOL MYERS SQUIBB CO ; BRISTOL MYERS SQUIBB MEDICAL IMAGING INC

Inventor(s): (std): LIU S ; LIU SHUANG ; SHUANG LIU

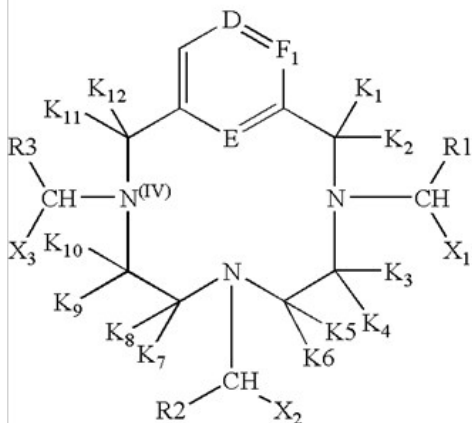
Inventor(s): S LIU

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ OM PH PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM ZW

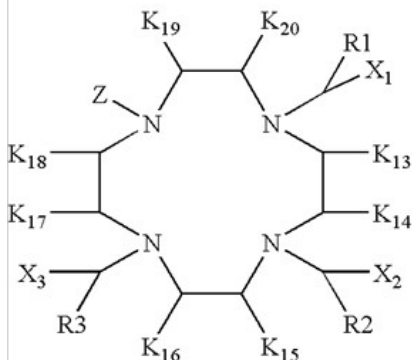
Title: COMPOUNDS COMPRISING SHORT AMINOALCOHOL CHAINS AND METAL COMPLEXES FOR MEDICAL IMAGING

Abstract: Source: US2009169479A The present invention relates to a compound of formula (II) chosen from (IIa) and (IIb) or of formula (VI) chosen from (VIa) and (VIb) of following general formulae:

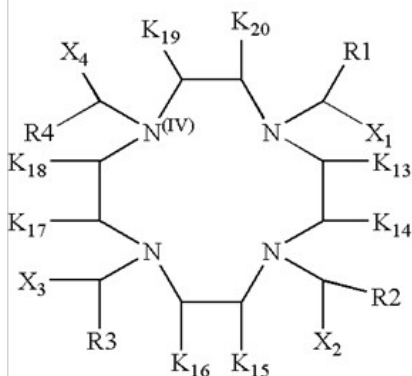
(IIa)



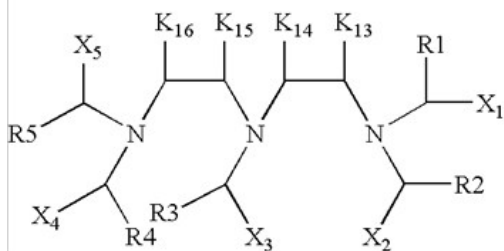
(IIb)



(VIa)



(VIb)



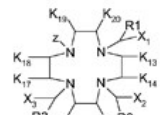
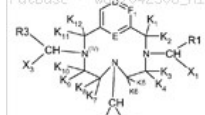
in which: X_1 , X_2 , X_3 , X_4 and X_5 represent,

independently of one another, L-Y in which L represents a C_1 - C_3 alkyl group, preferably (CH_2), with n=1 to 3, Y represents $-CONH_2$, $-CO-NR_7R_8$ or $-NR_7-CO-R_8$, or an isomer, an enantiomer or a diastereoisomer of these or their mixtures or a pharmaceutically acceptable salt of the compounds of formulae (VIa) and (VIb). It also relates to a complex of these compounds with a paramagnetic metal or a radionuclide and their use in diagnostic methods.

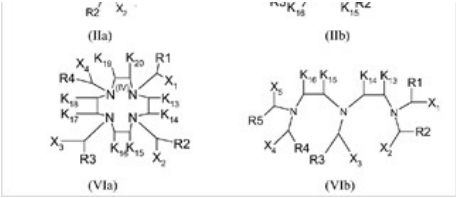
Classifications:

International (IPC 8-9): A61B5/055 A61B6/03 A61K103/10 A61K103/20 A61K103/32 A61K103/34 A61K31/33 A61K31/395 A61K31/439 A61K31/519 A61K31/555 A61K38/00 A61K49/00 A61K49/04 A61K49/06 A61K49/08 A61K49/10 A61K49/12 A61K49/14 A61K51/00 A61K51/04 A61K51/08 A61M36/14 A61P35/00 C07C211/05 C07D209/48 C07D213/36 C07D239/95 C07D255/00 C07D255/02 C07D257/02 C07D295/15 C07D401/12 C07D403/12 C07D409/12 C07D417/12 C07D417/14 C07D459/00

PatBase - W057042506_A1



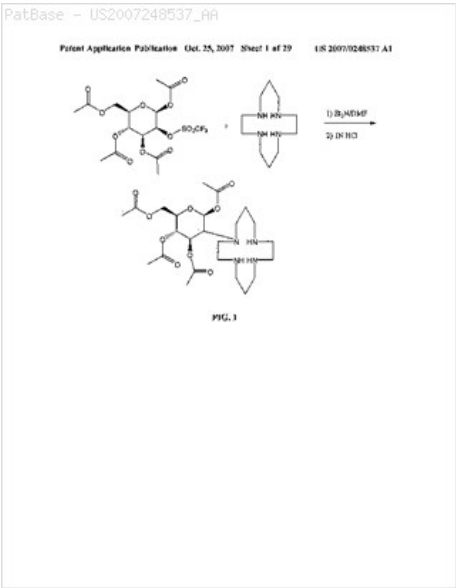
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C07J9/00 C07K7/06 C12N15/63 G01N23/00 G01R33/28
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C07D257/02 C07D487/04 C07F5/00 C07K7/06 (Advanced/Non-invention);
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C07D403/00 C07D409/00 C07D417/00 C07D459/00 C07D471/00 C07D487/00
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C07F5/00 C07K7/00 (Core/Non-invention)
CPC: A61K49/103 A61K49/106 A61K51/0402 A61K51/0478 A61K51/0482 C07D257/02 A61K49/10 A61K49/085 A61K49/14 A61K51/0497
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514/183S 514/184 514/184S 514/186 514/186S 514/300 514/300S 534/15 540/465 540/465S 540/472 540/472S 540/474 540/474S 600/420
600/420P 600/427 600/427S



Title: COMPOSITIONS AND METHODS FOR CELLULAR IMAGING AND THERAPY

Abstract: Source: US2007248537A The present invention relates generally to the fields of chemistry and radionuclide imaging. More particularly, it concerns compositions, kits and methods for imaging and therapy involving N₄ compounds and derivatives.

Classifications:
International (IPC 8-9): A61B5/055 A61K31/395 A61K31/7052 A61K45/00 A61K47/48 A61K49/00 A61K49/10 A61K51/00 A61K51/04 A61P35/00 C07D257/02 C07F13/00 C07F5/00 C07F9/6524 C07H19/04 C07K16/46 (Advanced/Invention); C07D257/02 C07F13/00 (Advanced/Non-invention); A61B5/055 A61K31/395 A61K31/7042 A61K45/00 A61K49/06 A61K51/00 A61K51/02 A61P35/00 C07D257/00 C07F13/00 C07F5/00 C07F9/00 C07H19/00 C07K16/46 (Core/Invention); A61K C07F (Subclass/Invention)
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CPC: C07F13/005 A61K51/04 A61K51/0406 A61K51/0482 A61K51/0491 A61K51/0493 A61K51/0497 A61K47/48076 A61K51/0474
European: A61K51/04R C07F13/00B
US: 424/1.49 424/1.490 424/1.490P 424/1.69 424/9.34 424/9.340 424/9.340S 424/9.363 424/9.363S 530/391.1 530/391.100 530/391.100S 530/400 530/400S 534/16 534/16S 536/17.4 536/17.400 536/17.400S 536/25.32 536/25.320 536/25.320S 540/474 540/474S



Family:

Publication number	Publication date	Application number	Application date
AU2006342202 AA	20071025	AU20060342202	20060504
AU2006342202 BB	20130307	AU20060342202	20060504
AU2006342202 CA	20130926	AU20060342202	20060504
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CN101516899 A	20090826	CN200680055029	20060504
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HK1123306 A3	20090612	HK20090101029	20090205
IL194826 A0	20090803	IL20080194826	20081022
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JP2009534381 T2	20090924	JP20090506472T	20060504
KR20090014164 A	20090206	KR20087028323	20081119
KR20140099557 A	20140812	KR20147020865	20060504
NO20084821 A	20090116	NO20080004821	20081118
US2007248537 AA	20071025	US20070737694	20070419
US8758723 BB	20140624	US20070737694	20070419
WO07120153 A1	20071025	WO2006US16784	20060504
WO08130439 A1	20081030	WO2007US82411	20071024

Priority:
US20060745148P 20060419 WO2006US16784 20060504 US20070737694 20070419
WO2007US82411 20071024

Probable Assignee: BOARD OF UNIV OF TEXAS SYSTEM

Assignee(s): (std): UNIV TEXAS ; OH CHANG SOK ; KOHANIM SAADY ; AZHDARINIA ALI ; YANG DAVID J ; YU TONY DONG FANG ; YU DONG FANG

Assignee(s): BOARD OF REGENTS THE UNIVERSITY OF TEXAS SYSTEM ; BOARD OF REGENTS UNIV OF TEXAS SYSTEM ; BOARD OF REGENTS UNIV TEXAS SYSTEM ; BOARD OF UNIV TEXAS SYSTEM ; BOARD OF UNIV ; BOARD OF UNIV OF TEXAS SYSTEM ; THE BOARD OF REGENTS OF THE UNIVERSITY OF TEXAS SYSTEM ; BOARD OF UNIV OF TEXAS SYSTEM201 WEST 7TH STREETAUSTINTX78701US

Inventor(s): (std): AZHDARINIA ALI ; KOHANIM SAADY ; OH CHANG SOK ; YANG DAVID J ; YU DONG FANG ; YU TONY DONG FANG ; SOK OH CHANG ; SAADY KOHANIM ; ALI AZHDARINIA

Inventor(s): OH CHANG ; DAVID J YANG ; CHANG SOK OH ; YANG DAVID ; TONY DONG FANG YU ; YU DONG FANGUS ; YANG DAVID JUS ; OH CHANG SOKUS ; KOHANIM SAADYUS ; AZHDARINIA ALIUS ; DONG FANG YU

Agent(s): DEHMEAL ALBRECHT ; FULBRIGHT AND JAWORSKI LLP ; PARKER HIGHLANDER PLLC ; DE LA PAZ MONICA A

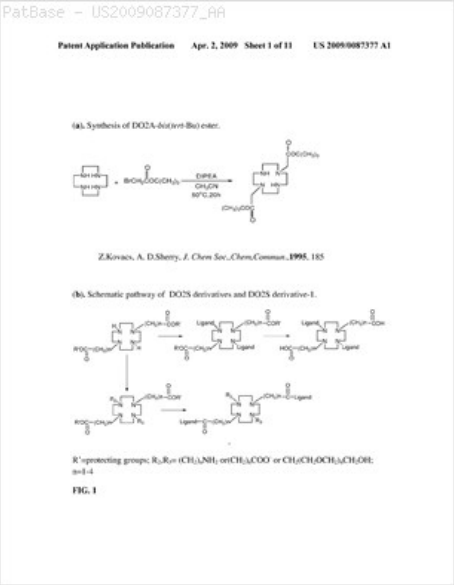
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Title: COMPOSITIONS FOR TARGETED IMAGING AND THERAPY

Abstract: Source: US2009087377A The present invention relates to the field of radiochemistry, nuclear imaging, radionuclide therapy and chemical synthesis. More particularly, it concerns a strategy for radiolabeling target ligands. It further concerns methods of using those radiolabeled ligands for imaging, radionuclide therapy and tissue-specific disease imaging.

Classifications:

International (IPC 8-9): A61K103/00 A61K103/10 A61K103/20 A61K103/32 A61K103/34 A61K103/40 A61K31/395 A61K47/48 A61K49/00 A61K49/10 A61K51/02 A61K51/04 A61K51/08 A61K51/12 A61P35/00 (Advanced/Invention); A61K103/00 A61K103/10 A61K103/20 A61K103/32 A61K103/34 A61K103/40 A61P35/00 (Advanced/Non-invention); A61K47/48 A61K49/06 A61K51/02 (Core/Invention); A61K51/04 A61P35/00 (Core/Non-invention); A61K (Subclass/Invention)
CPC: A61K51/088 A61K51/0482 A61K51/0491 A61K51/0493 A61K51/0497 A61K51/08 A61K51/1244 A61K51/1248
European: A61K51/04L12 A61K51/04R A61K51/04S A61K51/04Z A61K51/08 A61K51/08Z A61K51/12H
US: 424/1.65 424/1.650P 424/9.364 424/9.364S 514/788 514/788S



Family:

Publication number	Publication date	Application number	Application date
AU2008230771 AA	20081002	AU20080230771	20080327
AU2008230771 BB	20140508	AU20080230771	20080327
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CA2682064 AA	20090924	CA20082682064	20080327
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EP2155262 A2	20100224	EP20080732945	20080327
EP2155262 A4	20121219	EP20080732945	20080327
MX2009010412 A1	20100217	MX20090010412	20090925
TW200940098 A	20091001	TW20080112535	20080407
US2009087377 AA	20090402	US20080057066	20080327
WO08119036 A2	20081002	WO2008US58476	20080327
WO08119036 A3	20091230	WO2008US58476	20080327
ZA200907492 A	20100825	ZA20090007492	20091026

Priority:
US20070908332P 20070327 US20080057066 20080327 WO2008US58476 20080327

Probable Assignee: RADIOMEDIX INC

Assignee(s): (std): AZHDARINIA ALI ; DELPASSAND EBRAHIM S ; RADIOMEDIX INC ; SIMS MOURTADA JENNIFER ; TWOROWSKA IZABELA

Inventor(s): (std): DELPASSAND EBRAHIM S ; AZHDARINIA ALI ; SIMS MOURTADA JENNIFER ; TWOROWSKA IZABELA

Inventor(s): ALI AZHDARINIA ; SIMS-MOURTADA, JENNIFER ; EBRAHIM S DELPASSAND ; IZABELA TWOROWSKA ; JENNIFER SIMS MOURTADA

Agent(s): GIOVANNINI FRANCESCA; FULBRIGHT AND JAWORSKI LLP; CATENA GINO ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: COMPLEX OF BIFUNCTIONAL CHELATING AGENT AND MANNOSYL HUMAN SERUM ALBUMIN

Abstract: Source: US2011286920A The present invention is about bifunctional chelating agents (BCA) conjugated mannosyl human serum albumin (MSA) and its radioisotope labeled compounds for imaging immune system such as macrophages, Kupffer cells, reticuloendothelial system (RES), and lymphatic system. The present invention comprises BCA-MSA conjugates, their radiolabeled compounds, and kits for radiolabeling. The present invention improved radiolabeling procedure, showed higher lymphatic system uptake, and enabled image by positron emission tomography (PET).

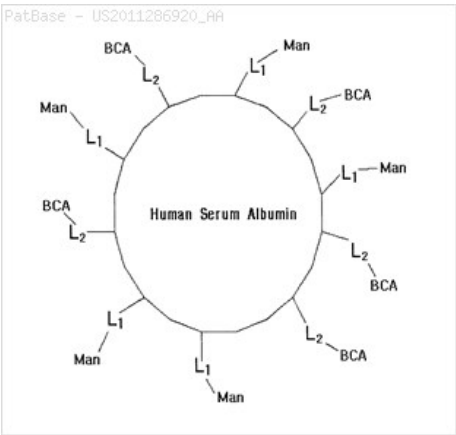
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European: A61K51/04R A61K51/04Z A61K51/08H

US: 424/1.11 424/1.65 424/1.69 424/1.690P 530/363 530/363S



Family:

Publication number	Publication date	Application number	Application date
CN102300590 A	20111228	CN201080005965	20100127
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JP2012516323 T2	20120719	JP20110547788T	20100127
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KR101055700 B1	20110811	KR20090006553	20090128
KR20100087511 A	20100805	KR20090006553	20090128
US2011286920 AA	20111124	US20100146280	20100127
US8911706 BB	20141216	US20100146280	20100127
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Priority:

KR20090006553 20090128 WO2010KR00488 20100127

Probable Assignee: SNU R AND DB FOUNDATION

Assignee(s): (std): CHUNG JUNE KEY ; INDUSTRIAL ACADEMIC COOPERATION GROUP SEOUL NATIONAL UNIV ; JEONG JAE MIN ; LEE DONG SOO ; SNU R AND DB FOUNDATION ; LEE MYUNG CHUL

Inventor(s): (std): CHUNG JUNE KEY ; JEONG JAE MIN ; LEE DONG SOO ; LEE MYUNG CHUL

Agent(s): BARZ PETER; MEISSNER BOLTE AND PARTNER; HESLIN ROTHENBERG FARLEY AND MESITI PC; SUH JONG WAN

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: NOVEL TETRAAZA MACROCYCLIC COMPOUND, **PREPARATION** METHOD THEREOF AND USE THEREOF

Abstract: Source: US2012219495A Provided are a cross-bridged tetraaza macrocyclic compound of a novel structure that can be used, for example, as a contrast agent for diagnostic imaging or a radiopharmaceutical and a method for preparing the same. The disclosed tetraaza macrocyclic compound is able to form a stable metal complex at a lower temperature and allows easy conjugation with a bioactive substance or a chemically active substance, when compared to the existing cross-bridged tetraaza macrocyclic compounds.

Classifications:

International (IPC 8-9): A61K39/395 A61K49/00 A61K49/04 A61K51/00 A61K51/04 A61K51/08 A61K51/10 A61M36/14 A61P25/00 A61P25/28 A61P31/00 A61P31/04 A61P31/10 A61P31/12 A61P33/00 A61P35/00 A61P37/00 A61P37/08 A61P9/00 C07D257/00 C07D257/02 C07D403/12 C07D487/04 C07D487/08 C07F1/08 C07F3/06 C07F5/00 C07K17/02 (Advanced/Invention)

CPC: C07D257/02 C07D257/10 A61K51/0482 A61K51/082 A61K51/088 A61K51/1051 C07D487/08

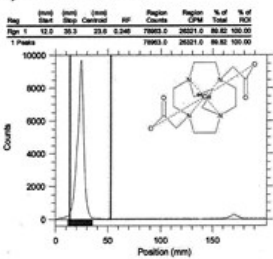
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US: 424/1.53 424/1.530P 424/1.69 424/1.690S 424/178.1 424/178.100S 424/9.1 424/9.100S 530/321 530/321S 530/391.1 530/391.100S 530/391.5 530/391.500S 534/10 534/10S 534/16 534/16S 540/465 540/465S 540/472 540/472S

PatBase - US2012219495_AA
Patent Application Publication Aug. 30, 2012 Sheet 1 of 61 US 2012219495 A1

(Fig. 1)

a) ⁶⁴Cu-PCB-DO2A



Family:

Publication number	Publication date	Application number	Application date
EP2476683 A2	20120718	EP20100815618	20100909
EP2476683 A4	20130619	EP20100815618	20100909
KR101199570 B1	20121113	KR20100073954	20100730
KR20110027555 A	20110316	KR20100073954	20100730
US2012219495 AA	20120830	US20100395346	20100909
US9061078 BB	20150623	US20100395346	20100909
WO11031073 A2	20110317	WO2010KR06139	20100909
WO11031073 A3	20110804	WO2010KR06139	20100909

Priority:

KR20090084943 20090909 KR20100073954 20100730 WO2010KR06139 20100909

Probable Assignee: KYUNGPOOK NATIONAL UNIV IND ACADEMIC COOPERATION FOUNDATION

Assignee(s): (std): KYUNGPOOK NAT UNIV IND ACAD ; PANDYA DARPAN ; YOO JEONG SOO

Assignee(s): KYUNGPOOK NATIONAL UNIV IND ACADEMIC COOPERATION F ; KYUNGPOOK NATIONAL UNIV IND ACADEMIC COOPERATION FOUNDATION ; KYUNGPOOK NATIONAL UNIVERSITY INDUSTRY ACADEMIC COOPERATION FOUNDATION

Inventor(s): (std): DARPAN PANDYA ; YOO JEONG SOO ; PANDYA DARPAN

Agent(s): EHNIS TOBIAS; ALSTON AND BIRD LLP; J C HYUN PATENT AND LAW FIRM

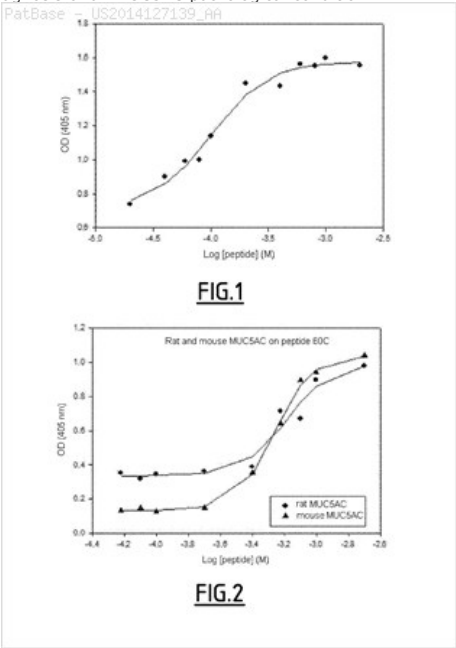
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: COMPOUNDS FOR DIAGNOSING DISEASES ASSOCIATED WITH THE EXPRESSION OF MUC5AC

Abstract: Source: US2014127139A The application relates to a compound of general formula (I) below: Signal-Linker-Peptide (I) and to the uses thereof for medical imaging or diagnosis or the **preparation** of a composition for diagnosis of an MUC5AC pathological condition.

Classifications:

International (IPC 8-9): A61K47/48 A61K49/00 A61K49/04 A61K49/14 A61K49/18 A61K51/04 A61K51/08 A61P35/00 G01N33/574 G01N33/58 G01N33/68 (Advanced/Invention)
CPC: A61K49/14 A61K47/48084 A61K49/0017 A61K49/049 A61K49/1842 A61K49/186 A61K49/1866 A61K51/0478 A61K51/048 A61K51/0482 A61K51/08 A61K51/088 B82Y5/00
European: A61K47/48H4L A61K49/00P4F A61K49/04H8P4S A61K49/14 A61K49/18R2N2H6 A61K49/18R2N2K6A A61K49/18R2N2R A61K51/04L12 A61K51/04L8 A61K51/04L8D A61K51/08 B82Y5/00
US: 424/9.341 530/328



Family:

Publication number	Publication date	Application number	Application date
EP2651453 A1	20131023	EP20110788849	20111130
FR2968562 A1	20120615	FR20100060497	20101214
FR2968562 B1	20130111	FR20100060497	20101214
US2014127139 AA	20140508	US20110993975	20111130
WO12079989 A1	20120621	WO2011EP71427	20111130

Priority:

FR20100060497 20101214 WO2011EP71427 20111130

Probable Assignee: GUERBET

Assignee(s): (std): BALLEST SEBASTIEN ; GONZALEZ WALTER ; GUERBET SA ; ROSSEZ YANNICK

Assignee(s): GUERBET

Inventor(s): (std): BALLEST SEBASTIEN ; GONZALEZ WALTER ; ROSSEZ YANNICK

Agent(s): BLOT PHILIPPE ROBERT EMILE; BLOT PHILIPPE ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: PROCESS FOR THE **PREPARATION** OF COMPLEXES OF **68Ga**

Abstract: Source: US2014171637A A process for the **preparation** of complexes containing **68Ga** wherein a buffer formic acid/formate in the presence of compounds capable to sequester metal cations is used in the complexation reaction.

Classifications:

International (IPC 8-9): A61K51/00 A61K51/04 C07B C07B59/00 (Advanced/Invention); C07B (Subclass/Invention)

International (IPC 1-7): C07B59/00

CPC: A61K51/088 A61K51/0482 C07B59/00

US: 540/465

Family:

Publication number	Publication date	Application number	Application date
AU2012297008 AA	20130221	AU20120297008	20120810
CA2844145 AA	20140204	CA20122844145	20120810
CN103889930 A	20140625	CN201280039304	20120810
CO7020857 A2	20140811	CO20140050755	20140310
EP2742017 A2	20140618	EP20120756391	20120810
IL230904 A0	20140331	IL20140230904	20140210
IN01897CN2014 A	20150529	IN2014CN01897	20140311
ITFI20110180 A1	20130213	IT2011FI00180	20110812
JP2014524423 T2	20140922	JP20140524396T	20120810
MX2014001691 A1	20141113	MX20140001691	20140211
US2014171637 AA	20140619	US20120237728	20120810
WO13024013 A2	20130221	WO2012EP65659	20120810
WO13024013 A3	20130502	WO2012EP65659	20120810

Priority:

IT2011FI00180 20110812 WO2012EP65659 20120810

Probable Assignee: ADVANCED ACCELERATOR APPLICATIONS SA

Assignee(s): (std): ADVAMCED ACCELERATOR APPLIC S A ; ADVANCED ACCELERATOR APPLIC S A ; ADVANCED ACCELERATOR APPLIC SA ; MARIANI MAURIZIO FRANCO ; LORENZA FUGAZZA ; MAURIZIO FRANCO MARIANI ; MARIA AZZURRA FILANNINO ; FUGAZZA LORENZA ; FILANNINO MARIA AZZURRA

Assignee(s): ADVANCED ACCELERATOR APPLICATIONS SA ; ADVANCED ACCELERATOR APPLICATIONS S A ; ADVAMCED ACCELERATOR APPLICATIONS SA

Inventor(s): (std): FILANNINO MARIA AZZURRA ; MARIANI MAURIZIO FRANCO ; FUGAZZA LORENZA ; FILANNINO AZZURRA

Inventor(s): MAURIZIO FRANCO MARIANI ; MARIA AZZURRA FILANNINO ; LORENZA FUGAZZA

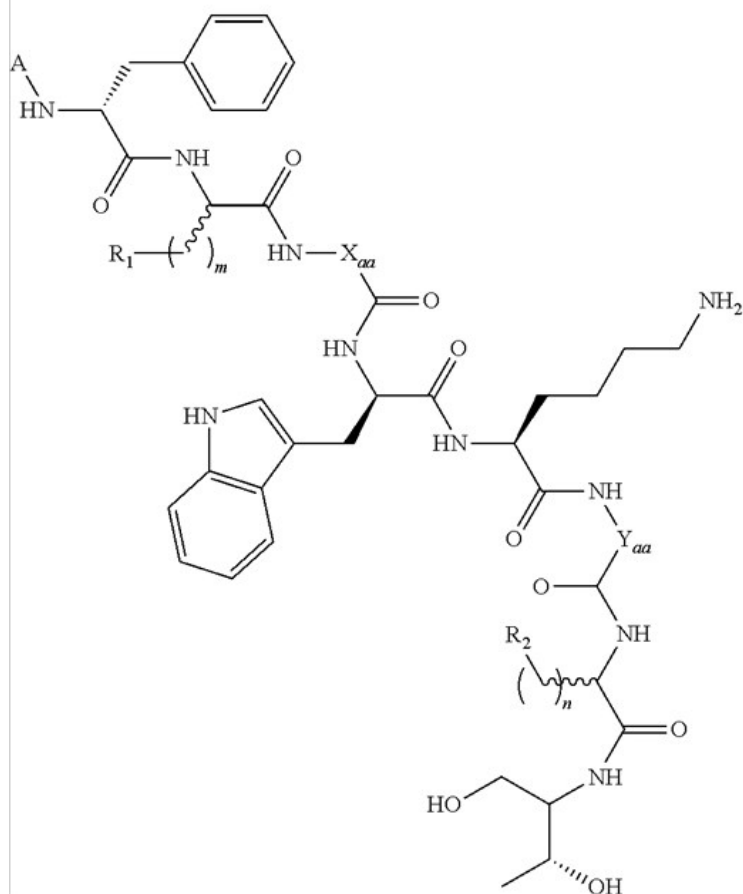
Agent(s): BRIGHENTI LIVIO; BRIGHENTI LIVIO ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: CLICKED SOMATOSTATIN CONJUGATED ANALOGS FOR BIOLOGICAL APPLICATIONS

Abstract: Source: US2014314670A The invention relate to the new conjugated somatostatin analogs of formula (I), wherein A- is H or TAG-B-, wherein -B- is 0 or a spacer, wherein TAG is a chelating agent (e.g. DOTA), a fluorescent dye, (e.g. Bodipy-B derivative, a Rho-damine-B derivative, a Fluorescein-B derivative, a Cyanine-B derivative, a Porphyrin-B derivative), a bimodal agent, or a cytotoxic agent (e.g. a doxorubicin derivative) wherein R1 is CI-C4 alkynyl radical when R2 is CI-C4 azido radical and viceversa and methods for preparing same, pharmaceutical compositions comprising them and their use in imaging and the treatment of cancer.

Formula I

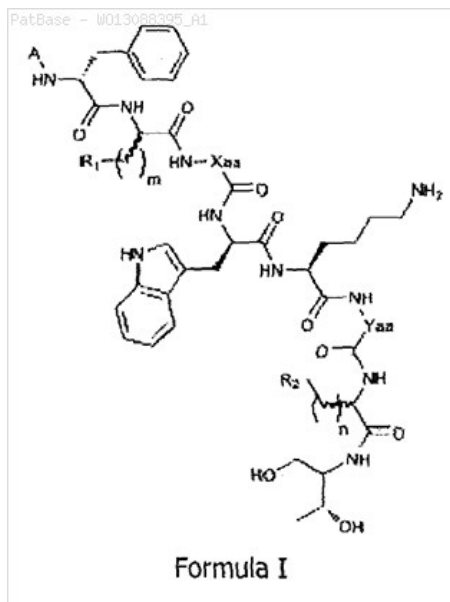


Classifications:

International (IPC 8-9): A61K38/08 A61K47/48 A61K49/00 A61K51/04 A61K51/08 C07K7/06 C07K7/56 (Advanced/Invention)

CPC: A61K47/48246 A61K49/0056 A61K49/108 A61K51/085 A61K38/00 C07K14/655 A61K51/083 A61K51/088 A61K51/0482 A61K47/48076 A61K49/14

US: 424/1.69 514/11.1 530/311



Formula I

Family:

Publication number	Publication date	Application number	Application date
EP2604281 A1	20130619	EP20110193530	20111214
EP2604281 B1	20140730	EP20110193530	20111214
EP2790732 A1	20141022	EP20120818617	20121214
US2014314670 AA	20141023	US20120365875	20121214
WO13088395 A1	20130620	WO2012IB57310	20121214

Priority:

EP20110193530 20111214 WO2012IB57310 20121214 EP20120818617 20121214

Probable Assignee: CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE CNRS

Assignee(s): (std): CENTRE NAT RECH SCIENT ; DE BOURGOGNE DIJON UNIV ; UNIV BOURGOGNE DIJON ; DE CERGY PONTOISE UNIV ; UNIV CERGY PONTOISE ; DE BOURGOGNE UNIV

Assignee(s): UNIVERSITE DE CERGY PONTOISE ; UNIVERSITE DE BOURGOGNE DIJON ; CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE CNRS ; CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE (CNRS) ; CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE CNRS

Inventor(s): (std): BERNHARD CLAIRE ; CHOREV MICHAEL ; D ADDONA DEBORA ; D ADDONA DEBORA M ; DENAT FRANCK ; ROVERO ANNA MARIA

Agent(s): PEAUCELLE CHANTAL; PEAUCELLE CHANTAL ET AL

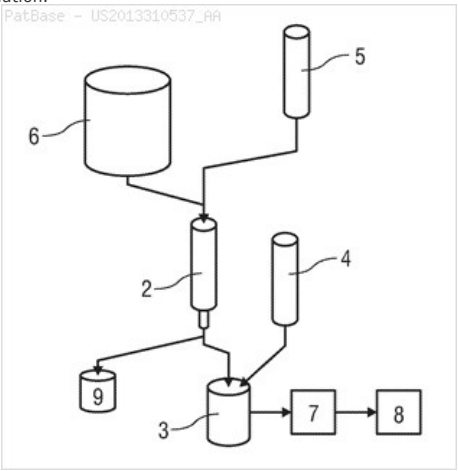
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Title: METHOD AND KIT FOR PREPARING A RADIOPHARMACEUTICAL

Abstract: Source: US2013310537A The invention relates to a method and a kit for preparing a radiopharmaceutical, the method comprising the steps: elution of a 68Ge/**68Ga**-Generator using hydrochloric acid as an eluent for obtaining a generator eluate comprising 68Gallium, feeding the generator eluate through a cation exchange cartridge, which collects the 68Gallium, separating the used eluent, eluting the 68Gallium from the cation exchange cartridge using a solution comprising sodium chloride and hydrochloric acid and feeding the resulting eluate into an aqueous precursor mixture comprising at least a labelling precursor thereby forming a reaction solution.

Classifications:

International (IPC 8-9): A61K51/02 B01L3/00 C07B59/00 C07F19/00 C07F5/00 C07K1/13 (Advanced/Invention)
CPC: A61K51/0482 A61K51/00 C07B59/00 C07B59/004 C07B59/008 C07K1/13
US: 422/430 530/345 530/363 534/10



Family:

Publication number	Publication date	Application number	Application date
CA2816070 AA	20131118	CA20132816070	20130516
US2013310537 AA	20131121	US20120475759	20120518

Priority:

US20120475759 20120518 CA20132816070 20130516

Probable Assignee: ZENTRAKLINIK BAD BERKA GMBH

Assignee(s): (std): MUELLER DIRK ; ZENTRAKLINIK BAD BERKA GMBH

Inventor(s): (std): MUELLER DIRK

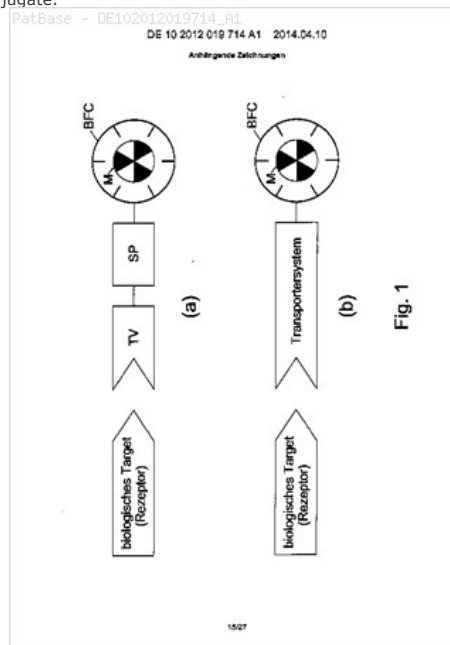
Title: VERFAHREN ZUR HERSTELLUNG VON PHARMAKOLOGISCHEN METALL-LIGAND-KONJUGATEN PRODUCING METALLIC LABELED COMPOUNDS, INVOLVES PROVIDING FIRST SOLUTION FROM FIRST SOLVENT COMPRISING WATER AND FIRST NON-AQUEOUS SOLVENT, AND FIRST ACID AND FIRST METAL DISSOLVED IN SOLVENT

Abstract: Source: DE102012019714A1 In einem Verfahren zur Herstellung von metallisch markierten Verbindungen wird ein Konjugat C aus einem Liganden BFC und einem oder mehreren an den Liganden BFC direkt oder ueber Spacergruppen gebundenen, biologisch aktiven Molekuelresten TV oder Transportersystemen mit einem oder mit zwei Metallen (M1, M2) in einer, nichtwaessrige Solventien (O1, O2) enthaltenden Loesung komplexiert. Producing metallic labeled compounds, comprises: (a) providing a first solution from a first solvent comprising 0-100 vol. percent of water and 0-100 vol. percent of a first non-aqueous solvent, and a first acid and a first metal dissolved in the solvent; (b) optionally providing a second solution of a second solvent comprising 0-100 vol. percent of water and 0-100 vol. percent of a second non-aqueous solvent, and a second acid and a second metal dissolved in the second solvent; and (C) providing a third solution of a third solvent comprising 0-100 vol. percent of water and 0-100 vol. percent of a third non-aqueous solvent. Producing metallic labeled compounds, comprises: (a) providing a first solution from a first solvent comprising 0-100 vol. percent of water and 0-100 vol. percent of a first non-aqueous solvent, and a first acid and a first metal dissolved in the solvent; (b) optionally providing a second solution of a second solvent comprising 0-100 vol. percent of water and 0-100 vol. percent of a second non-aqueous solvent, and a second acid and a second metal dissolved in the second solvent; (C) providing a third solution of a third solvent comprising 0-100 vol. percent of water and 0-100 vol. percent of a third non-aqueous solvent, and a conjugate of a ligand dissolved in the solvent and one or more biologically active molecule residues or transporter systems directly bounded to the ligand or via spacer groups; (D) mixing the first and third, and optionally second solution optionally with the addition of the first, third and/or second non-aqueous solvent to a reaction mixture, where the total amount of the first, third and/or second non-aqueous solvent is 0.1-100 vol. percent; and (E) complexing the first metal and optionally the second metal with the conjugate.

Classifications:

International (IPC 8-9): A61K51/04 (Advanced/Invention)

CPC: A61K51/0482 A61K51/0478 A61K51/088



Family:

Publication number	Publication date	Application number	Application date
DE102012019714 A1	20140410	DE201210019714	20121008

Priority:

DE201210019714 20121008

Probable Assignee: UNIV MAINZ JOHANNES GUTENBERG

Assignee(s): (std): UNIV MAINZ JOHANNES GUTENBERG

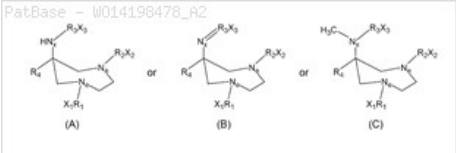
Assignee(s): JOHANNES GUTENBERG UNIV MAINZ

Inventor(s): (std): ROESCH FRANK PROF DR

Title: BIFUNCTIONAL CHELATING AGENTS BASED ON THE 1,4-DIAZEPINE SCAFFOLD (DAZA) FOR NON-INVASIVE MOLECULAR IMAGING

Abstract: A compound for radio metal complexation comprises a chelator and one or more biological targeting vectors TV conjugated to said chelator, wherein the chelator has structure (A) or (B) or (C), based on 1,4-diazepine with groups R1; R2, R3, R4, X1, X2, X3. The compound is particularly suited for complexation of radio-isotopic metals, such as 66Ga(III), 67Ga(III) and **68Ga(III)**.

Classifications:
International (IPC 8-9): A61K51/04 C07D243/08 (Advanced/Invention)
CPC: A61K51/0482 A61K51/0489



Family:

Publication number	Publication date	Application number	Application date
DE102013106066 A1	20141211	DE201310106066	20130611
WO14198478 A2	20141218	WO2014EP59874	20140514
WO14198478 A3	20150205	WO2014EP59874	20140514

Priority:
DE201310106066 20130611

Probable Assignee: JOHANNES GUTENBERG UNIV MAINZ

Assignee(s): (std): JOHANNES GUTENBERG UNIV MAINZ

Inventor(s): (std): PARKER DAVID ; ROESCH FRANK ; WALDRON BRADLEY PETER

Agent(s): PLATE SCHWEITZER ZOUNEK PAE

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW