

| INFORME DE BÚSQUEDA DE PATENTES                                                                                                                                                                                                                                                                                                                                                              |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                |                                                    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|----------------------------------------------------|
| N° de solicitud: NC2017/0010806                                                                                                                                                                                                                                                                                                                                                              |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                |                                                    |
| CRITERIOS PARA LA BÚSQUEDA (Anexar pantallazo o reporte en PDF, junto con los boléanos utilizados*. Para el caso de secuencias, anexar alineamientos)                                                                                                                                                                                                                                        |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                |                                                    |
| PALABRAS CLAVE UTILIZADAS                                                                                                                                                                                                                                                                                                                                                                    |                          | Inegrin* and naphtydirine* and radioligand and chelat* and isotope and dota and nodaga                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                |                                                    |
| CLASIFICACIONES UTILIZADAS PARA LA BÚSQUEDA                                                                                                                                                                                                                                                                                                                                                  |                          | CIP:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                |                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                              |                          | CPC:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                |                                                    |
| DOCUMENTOS CONSIDERADOS RELEVANTES (documentos patentes, literatura no patente, etc...)                                                                                                                                                                                                                                                                                                      |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                |                                                    |
| Informes/Base de datos                                                                                                                                                                                                                                                                                                                                                                       | N° de solicitud/ Autor** | Fecha de Publicación/ Presentación (DD/MM/AAAA)                                                                                                                                                                                                                                                                                                                                                                                                                                          | Reiv. afectadas (Con indicación, si procede, de las partes relevantes o números de secuencias) | Categorías especiales de los documentos citados*** |
| SIPI (Obligatoria)                                                                                                                                                                                                                                                                                                                                                                           |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                |                                                    |
| ISA/IPEA (****)                                                                                                                                                                                                                                                                                                                                                                              |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                |                                                    |
| USPTO                                                                                                                                                                                                                                                                                                                                                                                        |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                |                                                    |
| EPO                                                                                                                                                                                                                                                                                                                                                                                          | WO9931061                | 24/06/1999                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 10, 11, 13 y 15                                                                                | X                                                  |
| KIPO                                                                                                                                                                                                                                                                                                                                                                                         |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                |                                                    |
| Patbase*                                                                                                                                                                                                                                                                                                                                                                                     |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                |                                                    |
| EPOQUE NET*                                                                                                                                                                                                                                                                                                                                                                                  |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                |                                                    |
| Google Patents                                                                                                                                                                                                                                                                                                                                                                               |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                |                                                    |
| STN                                                                                                                                                                                                                                                                                                                                                                                          |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                |                                                    |
| *** Categorías especiales de documentos citados:                                                                                                                                                                                                                                                                                                                                             |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                |                                                    |
| <p>“A” documento que define el estado general de la técnica no considerado como particularmente relevante.</p> <p>“E” solicitud de patente o patente anterior pero publicada en la fecha de presentación internacional o en fecha posterior.</p> <p>“P” documento publicado antes de la fecha de presentación internacional pero con posterioridad a la fecha de prioridad reivindicada.</p> |                          | <p>“X” documento particularmente relevante; la invención reivindicada no puede considerarse nueva o que implique una actividad inventiva por referencia al documento aisladamente considerado.</p> <p>“Y” documento particularmente relevante; la invención reivindicada no puede considerarse que implique una actividad inventiva cuando el documento se asocia a otro u otros documentos de la misma naturaleza, cuya combinación resulta evidente para un experto en la materia.</p> |                                                                                                |                                                    |
| **** Indicar entre paréntesis la Autoridad que realizó la búsqueda o el informe preliminar Ejs: EPO, JP, INAPI.                                                                                                                                                                                                                                                                              |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                |                                                    |

|                                                                                                           |  |
|-----------------------------------------------------------------------------------------------------------|--|
| <b>Literatura no patente</b><br>**Se incluye entre otros, toda la referencia de la literatura no patente. |  |
|-----------------------------------------------------------------------------------------------------------|--|

|                                |                     |
|--------------------------------|---------------------|
| Fecha del reporte de búsqueda: | 31 de julio de 2018 |
|--------------------------------|---------------------|

## STN Search Queries

**L1 Initial Search:** 31-Jul-2018 01:52 PM EDT **Last Search:** 31-Jul-2018 01:52 PM EDT

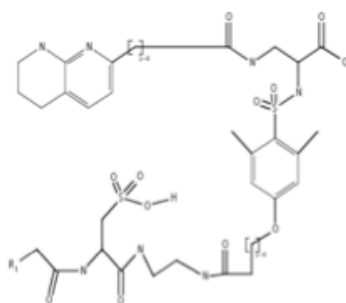
**STR2/SSS,FULL**

### Referenced Structures

#### STR2

**User Settings:** Abbreviations=on; Plurals=on; Spelling=on; Apostrophe=on; Chemical Names=on; Diacritics=on; Hyphen=on; Cross File=on

CAplus: 3 REGISTRY: 26 MARPAT: 5



### Structure as Entered

#### R-group Definitions

If an R-group has been defined it will appear in the table below

| R-group | Values     |
|---------|------------|
| R1      | Hy, Cb, Cy |

- L1 Initial Search:** 31-Jul-2018 02:34 PM EDT **Last Search:** 31-Jul-2018 02:34 PM EDT  
 ("integrin" OR "integrin+" OR "integrin+cd24+av" OR "integrin+cd73+pd" OR "integrin+cytokeratin+" OR "integrin1" OR "integrin16" OR "integrin1beta" OR "integrin1β" OR "integrin6" OR "integrin7" OR "integrina1" OR "integrina3b" OR "integrina4" OR "integrina6" OR "integrina8" OR "integrinacylhydrazine" OR "integrinadhesion" OR "integrinalfa" OR "integrinalfa4beta7")/BI  
**User Settings:** Abbreviations=on; Plurals=on; Spelling=on; Apostrophe=on; Chemical Names=on; Diacritics=on; Hyphen=on; Cross File=on  
 CAplus: 110078 REGISTRY: 1764127
- L2 Initial Search:** 31-Jul-2018 02:44 PM EDT **Last Search:** 31-Jul-2018 02:44 PM EDT  
 ("1,2,3,4-tetrahydro-1,8-naphthyridine")/CN  
**User Settings:** Abbreviations=on; Plurals=on; Spelling=on; Apostrophe=on; Chemical Names=on; Diacritics=on; Hyphen=on; Cross File=on  
 CAplus: 28 REGISTRY: 1
- L3 Initial Search:** 31-Jul-2018 02:46 PM EDT **Last Search:** 31-Jul-2018 02:46 PM EDT  
 refx **L2**  
**User Settings:** Abbreviations=on; Plurals=on; Spelling=on; Apostrophe=on; Chemical Names=on; Diacritics=on; Hyphen=on; Cross File=on  
 CAplus: 28
- L4 Initial Search:** 31-Jul-2018 02:46 PM EDT **Last Search:** 31-Jul-2018 04:43 PM EDT  
**L1 and L3**  
**User Settings:** Abbreviations=on; Plurals=on; Spelling=on; Apostrophe=on; Chemical Names=on; Diacritics=on; Hyphen=on; Cross File=on  
 CAplus: 3
- L5 Initial Search:** 31-Jul-2018 04:48 PM EDT **Last Search:** 31-Jul-2018 04:48 PM EDT  
 \*chelate\*/BI  
**User Settings:** Abbreviations=on; Plurals=on; Spelling=on; Apostrophe=on; Chemical Names=on; Diacritics=on;

Hyphen=on; Cross File=on

CAplus: 233173

**L6 Initial Search:** 31-Jul-2018 04:49 PM EDT

**Last Search:** 31-Jul-2018 04:49 PM EDT

**L1 and L5**

**User Settings:** Abbreviations=on; Plurals=on; Spelling=on; Apostrophe=on; Chemical Names=on; Diacritics=on; Hyphen=on; Cross File=on

CAplus: 838

**L7 Initial Search:** 31-Jul-2018 04:52 PM EDT

**Last Search:** 31-Jul-2018 04:52 PM EDT

\*isotope\*/BI

**User Settings:** Abbreviations=on; Plurals=on; Spelling=on; Apostrophe=on; Chemical Names=on; Diacritics=on; Hyphen=on; Cross File=on

CAplus: 405568

**L8 Initial Search:** 31-Jul-2018 04:52 PM EDT

**Last Search:** 31-Jul-2018 04:52 PM EDT

**L6 and L7**

**User Settings:** Abbreviations=on; Plurals=on; Spelling=on; Apostrophe=on; Chemical Names=on; Diacritics=on; Hyphen=on; Cross File=on

CAplus: 57

**L9 Initial Search:** 31-Jul-2018 04:56 PM EDT

**Last Search:** 31-Jul-2018 04:56 PM EDT

("dota" OR "dota=tetraazacyclododecanetetraacetic" OR "nodaga" OR "nodagatate")/BI

**User Settings:** Abbreviations=on; Plurals=on; Spelling=on; Apostrophe=on; Chemical Names=on; Diacritics=on; Hyphen=on; Cross File=on

CAplus: 4559

**L10 Initial Search:** 31-Jul-2018 04:56 PM EDT

**Last Search:** 31-Jul-2018 04:56 PM EDT

**L6 and L7**

**User Settings:** Abbreviations=on; Plurals=on; Spelling=on; Apostrophe=on; Chemical Names=on; Diacritics=on; Hyphen=on; Cross File=on

CAplus: 57

**L11 Initial Search:** 31-Jul-2018 05:11 PM EDT

**Last Search:** 31-Jul-2018 05:11 PM EDT

("imaging")/BI OR ("Arthroscopy" OR "Cardiography" OR "Colonoscopy" OR "ESR imaging" OR "Echocardiogram" OR "Electrocardiogram" OR "Electroencephalogram" OR "Electromyography" OR "Endoscopic retrograde cholangiopancreatography" OR "Endoscopic retrograde pancreatography" OR "Endoscopy" OR "Endosonography" OR "Fluorescence imaging" OR "Gamma-ray imaging" OR "Laparoscopy" OR "Laser-induced fluorescence imaging" OR "Magnetic imaging" OR "Magnetooptical imaging" OR "Medical imaging" OR "Myocardial perfusion imaging" OR "NMR imaging" OR "NMR tomography" OR "Pancreatography" OR "Perfusion computed tomography" OR "Perfusion imaging" OR "Photoplethysmography" OR "Plethysmography" OR "Tumor imaging")/CT

**User Settings:** Abbreviations=on; Plurals=on; Spelling=on; Apostrophe=on; Chemical Names=on; Diacritics=on; Hyphen=on; Cross File=on

CAplus: 611499

**L12 Initial Search:** 31-Jul-2018 05:12 PM EDT

**Last Search:** 31-Jul-2018 05:12 PM EDT

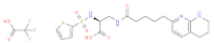
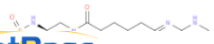
**L10 and L11**

**User Settings:** Abbreviations=on; Plurals=on; Spelling=on; Apostrophe=on; Chemical Names=on; Diacritics=on; Hyphen=on; Cross File=on

CAplus: 45

Number of structures found: 67

Search: C1=C2CCCN([H])C2=NC(CCCCC(=O)N([H])CC(C([H])=O)N([H])H)=C1  
Search type: Substructure  
Number of structures shown: 67  
Number of patent publications found: 184  
Country: AU, CN, DD, DE, EP, FR, GB, IN, IL, JP, RU, KR, SU, US, WO

| Select all                     |                                                                                   | Clear all                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | View selected in PatBase | Export to Excel | Depiction style: Normal | Search/Filter this page |
|--------------------------------|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-----------------|-------------------------|-------------------------|
| #                              | Structure                                                                         | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Publications             |                 |                         |                         |
| 1)<br><input type="checkbox"/> |  | <b>2(S)-(2-Thienylsulfonylamino)-3-(5-(5,6,7,8-tetrahydro-[1,8]naphthyridin-2-yl)-pentanoylamino)-propionic acid trifluoroacetate</b><br><b>IUPAC Name:</b> (2S)-3-[5-(5,6,7,8-tetrahydro-1,8-naphthyridin-2-yl)pentanoylamino]-2-(thiophen-2-ylsulfonylamino)propanoic acid;2,2,2-trifluoroacetic acid<br><b>Molecular Weight:</b> 580.598 g/mol<br><b>InChIKey:</b> RIKMIRIGKQJWJN-NTISSMGPSA-N<br><b>SMILES:</b> FC(C(=O)O)(F)F.S1C(=CC=C1)S(=O)(=O)N[C@H](C(=O)O)CNC(CCCCC1=NC=2NCCCC2C=C1)=O<br><b>Formula:</b> C <sub>22</sub> H <sub>27</sub> F <sub>3</sub> N <sub>4</sub> O <sub>7</sub> S <sub>2</sub><br><br>11 patent publications found <a href="#">View in PatBase</a> <a href="#">Stats</a> <a href="#">Analytics</a><br><br><a href="#">Links: PubChem</a> <a href="#">ChemSpider</a> <a href="#">Wikipedia</a> <a href="#">Save MOL</a> | 11                       |                 |                         |                         |
| 2)<br><input type="checkbox"/> |  | <b>2(S)-(Methanesulfonylamino)-3-(5-(5,6,7,8-tetrahydro-[1,8]naphthyridin-2-yl)-pentanoylamino)-propionic acid</b><br><b>IUPAC Name:</b> (2S)-2-(methanesulfonamido)-3-[5-(5,6,7,8-tetrahydro-1,8-naphthyridin-2-yl)pentanoylamino]propanoic acid<br><b>Molecular Weight:</b> 398.477 g/mol<br><b>InChIKey:</b> PRKNXIWQQALQDX-AWEZNNQCLSA-N<br><b>SMILES:</b> CS(=O)(=O)N[C@H](C(=O)O)CNC(CCCCC1=NC=2NCCCC2C=C1)=O                                                                                                                                                                                                                                                                                                                                                                                                                                      | 10                       |                 |                         |                         |

PatBase

Menu Search History Session Folder Order Help Logoff

Username: sic8@patbase.co  
Subaccount: none

Username: sic8@patbase.com  
Subaccount: none

Menu Search History Session Folder Order Help Logoff

Search 4: "[Chemical Explorer]: Selected structures (67) " 1-5 of 5

Display results

Display format: Classic Sorted by: Publication date asc [Print](#) [Save/export](#) [Snapshot](#) [Visual explorer](#) [Analytics](#)

1) Family number: 30083402 (US2002010176A)

Similar Translate Full-text Status Citations

Title: [EN] INTEGRIN RECEPTOR ANTAGONISTS

**Abstract:** Source: US2002010176A [EN] The present invention relates to compounds and derivatives thereof, their synthesis, and their use as integrin receptor antagonists. More particularly, the compounds of the present invention are antagonists of the integrin receptors alphavbeta3, alphavbeta5, and/or alphavbeta6 and are useful for inhibiting bone resorption, treating and preventing osteoporosis, and inhibiting vascular restenosis, diabetic retinopathy, macular degeneration, angiogenesis, atherosclerosis, inflammation, wound healing, viral disease, tumor growth, and metastasis.

Classifications: [Classification Explorer](#)

**International (IPC 8-9):** A61K31/155 A61K31/415 A61K31/4375 A61K31/44 A61K31/4427 A61K31/444 A61K31/4709 A61K31/498 A61K31/505 A61K31/506 A61P17/02 A61P19/10 A61P27/02 A61P29/00 A61P3/14 A61P31/12 A61P35/00 A61P43/00 A61P9/10 B60P1/38 C07D213/30 C07D213/74 C07D235/12 C07D235/36 C07D235/42 C07D239/26 C07D257/00 C07D277/00 C07D401/06 C07D401/12 C07D471/04 C07D491/04 C07D495/04 C07D519/00 (Advanced/Invention);

A61K31/155 A61K31/4427 A61K31/4709 A61K31/498 A61K31/506 A61P29/00 A61P35/00 A61P43/00 C07D213/30 (Advanced/Non-invention);

A61K31/155 A61K31/415 A61K31/4353 A61K31/44 A61K31/4427 A61K31/4709 A61K31/498 A61K31/505 A61K31/506 A61P17/00 A61P19/00 A61P27/00 A61P29/00 A61P3/00 A61P31/00 A61P35/00 A61P43/00 A61P9/00 C07D213/00 C07D235/00 C07D239/00 C07D257/00 C07D277/00 C07D401/00 C07D471/00 C07D491/00 C07D495/00 C07D519/00 (Core/Invention)

**International (IPC 1-7):** A61K31/155 A61K31/41 A61K31/415 A61K31/4178 A61K31/435 A61K31/4355 A61K31/4375 A61K31/44 A61K31/444 A61K31/47 A61K31/4709 A61K31/495 A61K31/498 A61K31/505 A61K31/506 A61K31/535 A61K31/54 A61P17/02 A61P19/00 A61P19/10 A61P27/02 A61P29/00 A61P3/14 A61P31/12 A61P35/00 A61P43/00 A61P5/48 A61P9/10 B60P1/38 C07D211/82 C07D213/30 C07D213/55 C07D213/73 C07D213/74 C07D215/00 C07D215/12 C07D235/12 C07D235/36 C07D235/42 C07D239/26 C07D239/36 C07D239/42 C07D257/00 C07D277/00 C07D401/00 C07D401/06 C07D401/12 C07D419/00 C07D471/04 C07D471/14 C07D491/04 C07D491/048 C07D491/056 C07D519/00 C07D519/00

**CPC:** C07D401/06 C07D401/12 C07D471/04 C07D495/04

**European:** C07D401/06 C07D401/12 C07D471/04 C07D495/04 C07D519/00

**US:** 514/224.2 514/224.200P 514/227.5 514/227.500S 514/238.2 514/238.200S 514/249 514/249S 514/252.12 514/252.120S 514/256 514/256S 514/258 514/269 514/272 514/277 514/277S