

# INFORME DE BÚSQUEDA DE PATENTES

N° de solicitud: **NC2016/0005480** Prioridad: **(30/Mayo/2014)**

**CRITERIOS PARA LA BÚSQUEDA (Anexar pantallazo o reporte en PDF, junto con los boléanos utilizados\*. Para el caso de secuencias, anexar alineamientos)**

|                                                    |                                                                                                                              |
|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| <b>PALABRAS CLAVE UTILIZADAS</b>                   | 1. "1, 3, 4-thiadiazole" "Glutamase inhibitors".<br>2. "1, 3, 4-thiadiazole" "glutamase"<br>3. "1, 3, 4-thiadiazole" "GLS 1" |
| <b>CLASIFICACIONES UTILIZADAS PARA LA BÚSQUEDA</b> | <b>CIP:</b> C07D 417/14; A61K 31/501, A61K 31/53, A61P 35/00.<br><b>CPC (Opcional):</b>                                      |

## DOCUMENTOS CONSIDERADOS RELEVANTES (documentos patentes, literatura no patente, etc...)

| Informes/Base de datos | N° de solicitud/<br>Autor** | Fecha de<br>Publicación/Presentación<br>(DD/MM/AAAA) | Reiv. afectadas (Con indicación, si procede, de<br>las partes relevantes o números de secuencias) | Categorías<br>especiales de<br>los<br>documentos<br>citados*** |
|------------------------|-----------------------------|------------------------------------------------------|---------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| SIPI                   | 15140148                    | 18/Junio/2015                                        |                                                                                                   | A                                                              |
|                        | 05032837                    | 11/Abril/2005                                        |                                                                                                   | A                                                              |
|                        | 07050205                    | 18/Mayo/2007                                         |                                                                                                   | A                                                              |
| WO                     | WO2013078123                | 30/Mayo/2013                                         |                                                                                                   | A                                                              |
|                        | US20140142081               | 22/Mayo/2014                                         |                                                                                                   | A                                                              |
| Google/Patents         | US6451828                   | 17/Septiembre/2002                                   |                                                                                                   | A                                                              |
| USPTO                  | WO2014089048                | 12/Junio/2014                                        |                                                                                                   | A                                                              |
|                        | WO2014081925                | 30/Mayo/2014                                         |                                                                                                   | A                                                              |
|                        | WO2014079011                | 30/Mayo/2014                                         |                                                                                                   | A                                                              |
|                        | WO2014078645                | 22/Mayo/2014                                         |                                                                                                   | A                                                              |
| CIPO                   | CA2953989                   | 01/Enero/2016                                        |                                                                                                   | A                                                              |
|                        | CA2892089                   | 30/Mayo/2014                                         |                                                                                                   | A                                                              |

"A" documento que define el estado general de la técnica no considerado como particularmente relevante.  
 "E" solicitud de patente o patente anterior pero publicada en la fecha de presentación internacional o en fecha posterior.  
 "P" documento publicado antes de la fecha de presentación internacional pero con posterioridad a la fecha de prioridad reivindicada.  
 "X" documento particularmente relevante; la invención reivindicada no puede considerarse nueva o que implique una actividad inventiva por referencia al documento aisladamente considerado.  
 "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.

\*\*\*\* 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. | Small molecule glutaminase inhibitors block glutamate release from stimulated microglia;<br><a href="https://www.ncbi.nlm.nih.gov/pubmed/24269238">https://www.ncbi.nlm.nih.gov/pubmed/24269238</a><br>Allosteric Glutaminase Inhibitors Based on a 1,4-Di(5-amino-1,3,4-thiadiazol-2-yl)butane Scaffold; <a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4868099/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4868099/</a><br>Targeted inhibition of tumor-specific glutaminase diminishes cell-autonomous tumorigenesis;<br><a href="https://www.ncbi.nlm.nih.gov/pubmed/25915584">https://www.ncbi.nlm.nih.gov/pubmed/25915584</a><br>Characterization of the interactions of potent allosteric inhibitors with glutaminase C, a key enzyme in cancer cell glutamine metabolism;<br><a href="http://www.jbc.org/content/early/2018/01/09/jbc.M117.810101.full.pdf">http://www.jbc.org/content/early/2018/01/09/jbc.M117.810101.full.pdf</a><br>Structural basis for the allosteric inhibitory mechanism of human kidney-type glutaminase (KGA) and its regulation by Raf-Mek-Erk signaling in cancer cell metabolism;<br><a href="http://www.pnas.org/content/pnas/109/20/7705.full.pdf">http://www.pnas.org/content/pnas/109/20/7705.full.pdf</a> |
|-----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**Fecha del reporte de búsqueda:** 05/Mayo/2018

Username: sic8@patbase.com  
Subaccount: Germán Clavijo

Menu Search History Session Folder Order Help Logoff

| # | Search query           | Results | Options                                                                                                                   |
|---|------------------------|---------|---------------------------------------------------------------------------------------------------------------------------|
| 7 | 5 and 1                | 4       | <a href="#">View</a>   <a href="#">Browse</a>   <a href="#">Hits</a>   <a href="#">Optimise</a>   <a href="#">more...</a> |
| 6 | 5 and 3                | 3       | <a href="#">View</a>   <a href="#">Browse</a>   <a href="#">Hits</a>   <a href="#">Optimise</a>   <a href="#">more...</a> |
| 5 | 4 and THIADIAZOLE      | 585     | <a href="#">View</a>   <a href="#">Browse</a>   <a href="#">Hits</a>   <a href="#">Optimise</a>   <a href="#">more...</a> |
| 4 | cancer                 | 148858  | <a href="#">View</a>   <a href="#">Browse</a>   <a href="#">Hits</a>   <a href="#">Optimise</a>   <a href="#">more...</a> |
| 3 | glutaminase inhibitors | 22      | <a href="#">View</a>   <a href="#">Browse</a>   <a href="#">Hits</a>   <a href="#">Optimise</a>   <a href="#">more...</a> |
| 2 | 1 and THIADIAZOLE      | 4       | <a href="#">View</a>   <a href="#">Browse</a>   <a href="#">Hits</a>   <a href="#">Optimise</a>   <a href="#">more...</a> |
| 1 | STAC=(GLS1)            | 46      | <a href="#">View</a>   <a href="#">Browse</a>   <a href="#">Hits</a>   <a href="#">Optimise</a>   <a href="#">more...</a> |

Information Shortcuts

## Command Reference

[Bibliographic data](#)[Textual data](#)[Update commands](#)[Operators](#)[Navigation / shortcuts](#)[Search tools](#)

| EPODOC | SS Status | Results | Query       |
|--------|-----------|---------|-------------|
| 1      |           | 4.814   | THIADIAZOLE |
| 2      |           | 209.831 | CANCER      |
| 3      |           | 116     | 1 AND 2     |
| 4      |           | 14      | 3 AND GLS1  |
| 5      |           | 11      | GLUTAMASE   |

# NC2016/0005480

## Glutamase inhibitors

stnsw20

Project Created: 06-May-2018 07:32 PM EDT

Last Updated: 06-May-2018 07:37 PM EDT

Report Created: 06-May-2018 07:43 PM EDT

### STN Search Queries

L1

Initial Search: 06-May-2018 07:33 PM EDT

Last Search: 06-May-2018 07:33 PM EDT

Glutamase inhibitors

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

CAplus: 0 REGISTRY: - INPADOC: 3  
PCTFULL: 1 USFULL: 1

**L2 Initial Search:** 06-May-2018 07:35 PM EDT **Last Search:** 06-May-2018 07:35 PM EDT  
thiadiazole

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

CAplus: 19382 REGISTRY: - INPADOC: 2820  
PCTFULL: 13946 USFULL: 28391

**L3 Initial Search:** 06-May-2018 07:36 PM EDT **Last Search:** 06-May-2018 07:36 PM EDT  
L2 AND CANCER

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

CAplus: 577 REGISTRY: - INPADOC: 60  
PCTFULL: 4490 USFULL: 6646

**L4 Initial Search:** 06-May-2018 07:37 PM EDT **Last Search:** 06-May-2018 07:37 PM EDT  
L3 AND GLS

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

CAplus: 1 REGISTRY: - INPADOC: 1  
PCTFULL: 18 USFULL: 20