

| INFORME DE BÚSQUEDA DE PATENTES                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                |                                                    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|----------------------------------------------------|
| N° de solicitud: NC2017/0001918                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                |                                                    |
| CRITERIOS PARA LA BÚSQUEDA                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                |                                                    |
| PALABRAS CLAVE UTILIZADAS                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Triazolo pyridazine and cancer                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                |                                                    |
| CLASIFICACIONES UTILIZADAS PARA LA BÚSQUEDA                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | CIP C07D 487/04, A61K 31/5025, A61P 35/00..                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                |                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 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                                                                                                                                                                                                                                                                                                                                                                                         | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -                                                                                              | -                                                  |
| USPTO                                                                                                                                                                                                                                                                                                                                                                                        | US8258140                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 04/09/2012                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -                                                                                              | -                                                  |
|                                                                                                                                                                                                                                                                                                                                                                                              | US2010292222                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 18/11/2010                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -                                                                                              | -                                                  |
| EPO                                                                                                                                                                                                                                                                                                                                                                                          | WO2010131022                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 18/11/2010                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -                                                                                              | -                                                  |
|                                                                                                                                                                                                                                                                                                                                                                                              | WO2010092371                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 19/08/2010                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -                                                                                              | -                                                  |
|                                                                                                                                                                                                                                                                                                                                                                                              | Art 1*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -                                                                                              | -                                                  |
|                                                                                                                                                                                                                                                                                                                                                                                              | Art 2**                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2014                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -                                                                                              | -                                                  |
| Patbase                                                                                                                                                                                                                                                                                                                                                                                      | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -                                                                                              | -                                                  |
| *** 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> |                                                                                                |                                                    |
| Literatura no patente                                                                                                                                                                                                                                                                                                                                                                        | <p>Art 1. Bradbury, R. H., Acton, D. G., Broadbent, N. L., Brooks, A. N., Carr, G. R., Hatter, G., ... &amp; Jude, D. (2013). Discovery of AZD3514, a small-molecule androgen receptor downregulator for treatment of advanced prostate cancer. <i>Bioorganic &amp; medicinal chemistry letters</i>, 23(7), 1945-1948.</p> <p>Art. 2. Jadav, P., Bahekar, R., Shah, S. R., Patel, D., Joharapurkar, A., Jain, M., ... &amp; Singh, P. K. (2014). Design, synthesis and biological evaluation of novel aminomethyl-piperidones based DPP-IV inhibitors. <i>Bioorganic &amp; medicinal chemistry letters</i>, 24(8), 1918-1922.</p> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                |                                                    |
| Fecha del reporte de búsqueda:                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 24/05/2018                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                |                                                    |


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Identity search

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| <input type="radio"/> <b>Narrow</b>           | Returns chemical structures with same distribution of electrons, atom isotopes, stereochemistry and connected fragments (if specified).      |
| <input checked="" type="radio"/> <b>Broad</b> | Returns chemical structures independent of distribution of electrons, atom isotopes, stereochemistry and connected fragments (if specified). |
| <input type="radio"/> <b>Tautomer</b>         | Returns chemical structures that are tautomers of the provided chemical structure.                                                           |

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| #                              | Structure | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Publications |
|--------------------------------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| 1)<br><input type="checkbox"/> |           | <b>4-(2-(4-(1-(3-methoxy-[1,2,4]triazolo[4,3-b]pyridazin-6-yl)piperidin-4-yl)phenoxy)ethyl)-1,3-dimethylpiperazin-2-one</b><br><b>IUPAC Name:</b> 4-[2-[4-[1-(3-methoxy-[1,2,4]triazolo[4,3-b]pyridazin-6-yl)piperidin-4-yl]phenoxy]ethyl]-1,3-dimethylpiperazin-2-one<br><b>Molecular Weight:</b> 479.575 g/mol<br><b>InChIKey:</b> RSMYFSPOTCDHHJ-UHFFFAOYSA-N<br><b>SMILES:</b> <chem>COC1=NN=C2N1N=C(C=C2)N2CCC(CC2)C2=CC=C(OCCN1C(C(N(CC1)C)=O)C)C=C2</chem><br><b>Formula:</b> C <sub>25</sub> H <sub>33</sub> N <sub>7</sub> O <sub>3</sub>               | 10           |
| 2)<br><input type="checkbox"/> |           | <b>(R)-4-(2-(4-(1-(3-methoxy-[1,2,4]triazolo[4,3-b]pyridazin-6-yl)piperidin-4-yl)phenoxy)ethyl)-1,3-dimethylpiperazin-2-one</b><br><b>IUPAC Name:</b> (3R)-4-[2-[4-[1-(3-methoxy-[1,2,4]triazolo[4,3-b]pyridazin-6-yl)piperidin-4-yl]phenoxy]ethyl]-1,3-dimethylpiperazin-2-one<br><b>Molecular Weight:</b> 479.575 g/mol<br><b>InChIKey:</b> RSMYFSPOTCDHHJ-GOSISDBHSA-N<br><b>SMILES:</b> <chem>COC1=NN=C2N1N=C(C=C2)N2CCC(CC2)C2=CC=C(OCCN1[C@@H](C(N(CC1)C)=O)C)C=C2</chem><br><b>Formula:</b> C <sub>25</sub> H <sub>33</sub> N <sub>7</sub> O <sub>3</sub> | 10           |



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| 2 | [Chemical Explorer]:<br>Selected structures (9) | 1       | View   Browse   Hits   Optimise   more... |
| 1 | [Chemical Explorer]:<br>Selected structures (2) | 1       | View   Browse   Hits   Optimise   more... |

Search 1: "[Chemical Explorer]: Selected structures (2)" 1 of 1

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1) Family number: 61603183 (US2017210747A)

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**Title:** [EN] [1,2,4]TRIAZOLO[4,3-B]PYRIDAZINES FOR USE IN THE TREATMENT OF PROLIFERATIVE DISEASES

**Abstract:** Source: US2017210747A [EN] The invention concerns compounds of Formula (I) (Formula (I)) or pharmaceutically-acceptable salts thereof, wherein  $R^1$ ,  $R^2$  and  $n$  have any of the meanings defined herein before in the description; processes for their preparation, pharmaceutical compositions containing them and their use as anti-proliferative and/or cell-killing agents.

(I)

