

INFORME DE BÚSQUEDA DE PATENTES

N° de solicitud: NC2017/0005374 Prioridad: (26/Noviembre/2014)

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	1. "Indazol" "Irak4 inhibitors" 2. "Indazol" "modulators interleukin-1 receptor-associated kinase" "endometriosis" 3. "Indazolecarboxamides" "Irak4 inhibitors" 4. "6-substituted indazoles" "Irak4 inhibitors" 5. "6-substituted indazolecarboxamide" "Irak4 inhibitors"
CLASIFICACIONES UTILIZADAS PARA LA BÚSQUEDA	CIP: C07D 401/12, A61K 31/4439, A61P 9/00, A61P 17/00, A61P 29/00, A61P 35/00. CPC (Opcional):

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***
WO	US2013274241	17/Octubre/2013		A
	US8293923	23/Octubre/2012		A
	WO2004013102	12/Febrero/2004		A
	WO2007031265	22/marzo/2007		A
SIPI	NC2016/0002520	29/Septiembre/2016		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.

Literatura no patente **Se incluye entre otros, toda la referencia de la literatura no patente.	- IRAK-4 inhibitors. Part II: a structure-based assessment of imidazo[1,2-a]pyridine binding; https://www.ncbi.nlm.nih.gov/pubmed/18482836
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Fecha del reporte de búsqueda:	09/06/2018
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#	Search query	Results	Options
5	4 AND pyridine-2-carboxamide	6	View Browse Hits Optimise more...
4	IRAK4	142	View Browse Hits Optimise more...
3	INTERLEUKIN-1 RECEPTOR-ASSOCIATED KINASE	0	
2	1 AND indazol*	18	View Browse Hits Optimise more...
1	TAC=(IRAK)	255	View Browse Hits Optimise more...

Command Reference

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Search type:

Identity Similarity Substructure

Identity search

Identity type:	Description
☒ Narrow	Returns chemical structures with same distribution of electrons, atom isotopes, stereochemistry and connected fragments (if specified).
☐ Broad	Returns chemical structures independent of distribution of electrons, atom isotopes, stereochemistry and connected fragments (if specified).
☐ Tautomer	Returns chemical structures that are tautomers of the provided chemical structure.

Return structures:

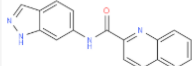
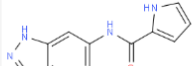
-Identidad



Number of structures found: 0

-Similaridad

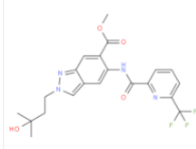
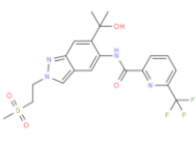
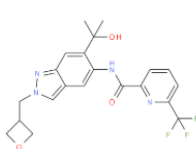
Number of structures found: 2

Select all		Clear all	View selected in PubBase	Export to Excel	Search/Filter this page
#	Structure	Details	Tanimoto similarity	Publications	
1) 		N-(1H-indazol-6-yl)quinoline-2-carboxamide IUPAC Name: N-(1H-indazol-6-yl)quinoline-2-carboxamide Molecular Weight: 288.303 g/mol InChIKey: RLMCOXCMAWJTJQ-UHFFFAOYSA-N SMILES: N1N=CC2=CC=C(C(=C12)NC(=O)C1=NC2=CC=CC=C2C=C1 Formula: C₁₇H₁₂N₄O 5 patent publications found View in PatBase Stats Analytics  Links: PubChem ChemSpider Wikipedia Save MOL MOL	97.26%	5	
2) 		azole-5-carboxylic acid (1H-indazol-6-yl)_amide IUPAC Name: N-(1H-indazol-6-yl)-1H-pyrrole-2-carboxamide Molecular Weight: 226.234 g/mol InChIKey: REFIKOKEXLULGK-UHFFFAOYSA-N SMILES: N1N=CC2=CC=C(C(=C12)NC(=O)C1=CC=CN1 Formula: C₁₂H₁₀N₄O 1 patent publications found View in PatBase Stats Analytics 	95.89%	1	

-Subestructura:

2)  **N-[6-(2-hydroxypropan-2-yl)-1H-indazol-5-yl]-6-(trifluoromethyl)pyridine-2-carboxamide**
IUPAC Name: N-[6-(2-hydroxypropan-2-yl)-1H-indazol-5-yl]-6-(trifluoromethyl)pyridine-2-carboxamide
Molecular Weight: 364.322 g/mol
InChIKey: GXFDGYNWYIRHBC-UHFFFAOYSA-N
SMILES: OC(C)(C)C1=C(C=C2C=CC(=O)N2)NC(=O)C1=CC(F)(F)F
Formula: C₁₇H₁₅F₃N₄O₂

23 patent publications found [View in PatBase](#) [Stats](#) [Analytics](#)

6)		methyl 2-(3-hydroxy-3-methylbutyl)-5-([6-(trifluoromethyl)pyridin-2-yl]carbonyl)amino-2H-indazole-6-carboxylate IUPAC Name: methyl 2-(3-hydroxy-3-methylbutyl)-5-[[6-(trifluoromethyl)pyridine-2-carbonyl]amino]indazole-6-carboxylate Molecular Weight: 450.411 g/mol InChIKey: UDVPBZCQGNVPHN-UHFFFAOYSA-N SMILES: <chem>COC(=O)C=1C(=CC2=CN(N=C2C1)CCC(C)(C)O)NC(=O)C1=NC(=CC=C1)C(F)(F)F</chem> Formula: C ₂₁ H ₂₁ F ₃ N ₄ O ₄ 15 patent publications found View in PatBase Stats Analytics	15
7)		N-[6-(2-hydroxypropan-2-yl)-2-[2-(methylsulphonyl)ethyl]-2H-indazol-5-yl]-6-(trifluoromethyl)pyridine-2-carboxamide IUPAC Name: N-[6-(2-hydroxypropan-2-yl)-2-(2-methylsulfonyl)ethyl]indazol-5-yl]-6-(trifluoromethyl)pyridine-2-carboxamide Molecular Weight: 470.465 g/mol InChIKey: OQAMEEFUUFJZRS-UHFFFAOYSA-N SMILES: <chem>OC(C)(C)C=1C(=CC2=CN(N=C2C1)CCS(=O)(=O)C)NC(=O)C1=NC(=CC=C1)C(F)(F)F</chem> Formula: C ₂₀ H ₂₁ F ₃ N ₄ O ₄ S 15 patent publications found View in PatBase Stats Analytics	15
12)		N-[6-(2-Hydroxypropan-2-yl)-2-(oxetan-3-ylmethyl)-2H-indazol-5-yl]-6-(trifluoromethyl)pyridine-2-carboxamide IUPAC Name: N-[6-(2-hydroxypropan-2-yl)-2-(oxetan-3-ylmethyl)indazol-5-yl]-6-(trifluoromethyl)pyridine-2-carboxamide Molecular Weight: 434.412 g/mol InChIKey: VFSGNUGYEMFXMN-UHFFFAOYSA-N SMILES: <chem>OC(C)(C)C=1C(=CC2=CN(N=C2C1)CC1COC1)NC(=O)C1=NC(=CC=C1)C(F)(F)F</chem> Formula: C ₂₁ H ₂₁ F ₃ N ₄ O ₃ 13 patent publications found View in PatBase Stats Analytics Links: PubChem ChemSpider Wikipedia Save MOL	13

EPODOC	SS Status	Results	Query
1		168	IRAK4
2		0	1 AND INDAZOL*
3		0	1 AND INDAZOL
4		1	1 AND PYRIDINE
5		0	(INTERLEUKIN AND 1 AND RECEPTOR AND ASSOCIATED AND KINASE AND 4) AND (PYRIDINE AND 2 AND CARBOXAMIDE)
6		0	(INTERLEUKIN AND RECEPTOR AND ASSOCIATED AND KINASE AND 4) AND (PYRIDINE AND CARBOXAMIDE)
7		0	(INTERLEUKIN AND KINASE AND INDAZOL) AND (ENDOMETRIOSIS)
8		1.532	(INTERLEUKIN AND KINASE AND INDAZOL) OR (LYMPHOMAS)
9		0	8 AND INDAZOL
10		0	(INTERLEUKIN AND KINASE AND INDAZOL) AND (LYMPHOMAS)



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NIF Date	Publication Number	Application Number	Details
12 January 2010	EP1248847	EP01903060.0	Reason Not in Force: Ceased Owner: AMGEN INC. IPC: C12N 15/54 (2006.01) Application filing date: 12 January 2001 Title: IRAK-4 . COMPOSITIONS AND METHODS OF USE SPC:

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#	Patent Number	Patent Title	Score
1.	2984259	COMBINATIONS OF INHIBITORS OF IRAK4 WITH INHIBITORS OF BTK	86%
2.	2934137	NOVEL CARBOXAMIDES, METHOD FOR THE PRODUCTION THEREOF, PHARMACEUTICAL PREPARATIONS COMPRISING THEM, AND USE THEREOF FOR PRODUCING MEDICAMENTS	75%
3.	2516931	NOVEL BICYCLIC UREA DERIVATIVES USEFUL IN THE TREATMENT OF CANCER AND OTHER DISORDERS	75%

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Search



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☒ All:10☐ Invention:10☐ Utility Model:0

SN	Application Number	Title
1	201180034712	Pyrazolo [1, 5A] pyrimidine and thieno [3, 2B] pyrimidine derivatives as IRAK4 modulators
2	201510559974	Pyrazolo[1.5A]Pyrimidine Derivatives As Irak4 Modulators
3	201580033142	Substituted indazole compounds as irak4 inhibitors
4	201580013752	Bicyclic heterocyclyl derivatives as IRAK4 inhibitors
5	201580029784	Bicyclic-fused heteroaryl or aryl compounds and their use as irak4 inhibitors
6	201580012991	Indazole compounds as irak4 inhibitors
7	201710282023	Pyridine IRAK4 inhibitor, preparation method and application thereof
8	201680022015	IRAK4 inhibitor and use thereof
9	201580078883	IRAK4 inhibitor and use thereof
10	201710893420	Imidazopyridazine IRAK4 inhibitor, and preparation method and application thereof

1 / 1 GO

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Patent Application

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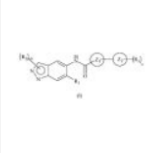
You can use the wildcard symbols * and ? to broaden your search, and quotation marks to search for phrases e.g. "milk products".

Boolean operators AND, OR, NOT, and brackets may also be used in your search query.

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Search Criteria

5 Case(s)

Case Number	Title of Invention	Abstract Drawing	Priority Date	Case Status	Owner	Abstract	Specification
☐ 721990	INDAZOLE COMPOUNDS AS IRAK4 INHIBITORS		10 Jan 2014	Filed	AURIGENE DISCOVERY TECHNOLOGIES LIMITED	The present invention provides indazole compound of formula (I), which are therapeutically useful as kinase inhibitor, particularly IRAK4 inhibitors. wherein Z1, Z2, R1, R2, R3, 'm' and 'n' have the meanings given in the specification, and pharmaceutically acceptable salts or stereoisomers thereof t (...)	 Specification