

Patent Information Initiative for Medicines Pat-INFORMED

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What is Pat-INFORMED?

- The Patent Information Initiative for Medicines, (Pat-INFORMED) is a search engine to help pharmaceutical procurement agencies determine the patent status of a medicine.
- It facilitates access to and availability of pharmaceutical patent information to inform procurement decisions.
- Pat-INFORMED is a partnership among WIPO, IFPMA and 20 global pharma companies.





What Pat-INFORMED is NOT?

A one-stop shop listing all information relevant to procurement.

A linkage system (listing in Pat-INFORMED has no legal implication).

A freedom-to-operate analysis tool.





Why did we create Pat-INFORMED?

- Greater transparency of patent information on medicines.
- "WIPO Development Agenda Goal 31:"... Better access to publicly available patent information...
- UN Sustainable Development Goals:
 - Goal 3 Promote health and well-being
 - Goal 9 Foster innovation
 - Goal 17 Strengthen implementation through partnerships





Which therapeutic areas does Pat-INFORMED cover?

HIV/ AIDS

Cardiovascular diseases

Diabetes

Hepatitis C

Oncology

Respiratory conditions



All products on the WHO EML that are not within these therapy areas

→ Companies are now populating the database to cover all small-molecules therapeutic areas.





Who can use Pat-INFORMED?



 The Pat-INFORMED database is accessible to everybody.



 The follow-on enquiry facility is limited to national and international procurement agencies.
 Information received is not confidential.



PAT-INFORMED Patent Information Initiative for Medicines



What's in Pat-INFORMED?

- 20 Companies
- 232 INNs (169 at launch)
- 660 Patent Families (600 at launch)
- 21,492 Patents (14,000 at launch)



PAT-INFORMED





2021 Visits

Visits Overview (in 2021)

8,539 visits, 5,813 unique visitors	10,684 pageviews, 8,534 unique pageviews
1 min 12s average visit duration	• total searches on your website, 0 unique keywords
82% visits have bounced (left the website after one page)	94 downloads, 87 unique downloads
1.3 actions (page views, downloads, outlinks and internal site searches) per visit	46 outlinks, 45 unique outlinks
0.19s average generation time	14 max actions in one visit
O M Bytes transferred overall	

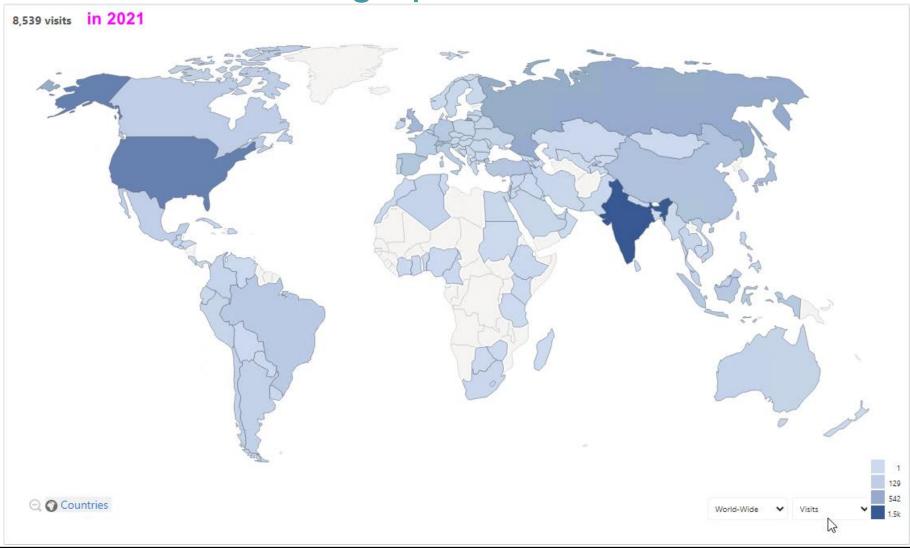


PAT-INFORMED

Patent Information Initiative for Medicines



2021 Visits – Geographic Distribution



PAT-INFORMED





2021 Visits – by place

COUNTRY	▼ VISITS COUNTRY	▼ VISITS
India	1,535 Mexico	121
United States	1,055 Netherlands	106
Russia	542 Malaysia	102
United Kingdom	399 Singapore	102
+ Switzerland	362 Argentina	95
● Japan	322 Hong Kong SAR China	89
China	275 💌 Vietnam	87
Spain	256 Chile	84
• Turkey	226 Australia	82
Indonesia	211 Ukraine	79
Germany	199 🕵 South Korea	73
Srazil	181 Latvia	69
Italy	168 🕒 Algeria	66
France	163 Eelarus	64
◆ Canada	129	





Thank you





Patent Information Initiative for Medicines Pat-INFORMED

Guilherme Cintra
Director, Innovation Policy (IFPMA)

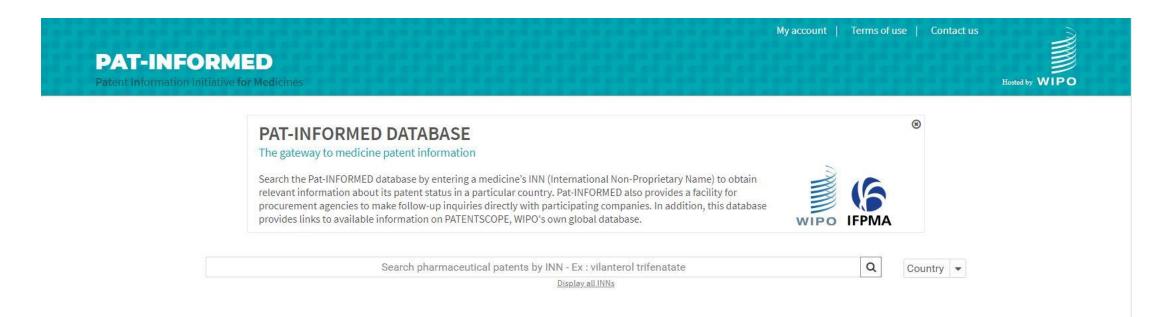
Pat-INFORMED: Key functionalities

DATABASE

DATABASE that helps pharmaceutical procurement experts around the world access patent information by country.

FACILITY TO REQUEST

It offers procurement agencies and experts the **FACILITY TO REQUEST** additional information directly from the patent holders.







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PAT-INFORMED DATABASE

The gateway to medicine patent infomation

Search the Pat-INFORMED database by entering a medicine's INN (International Non-Proprietary Name) to obtain relevant information about its patent status in a particular country. Pat-INFORMED also provides a facility for procurement agencies to make follow-up inquiries directly with participating companies. The database also links to available information on WIPO's own global database, PATENTSCOPE.

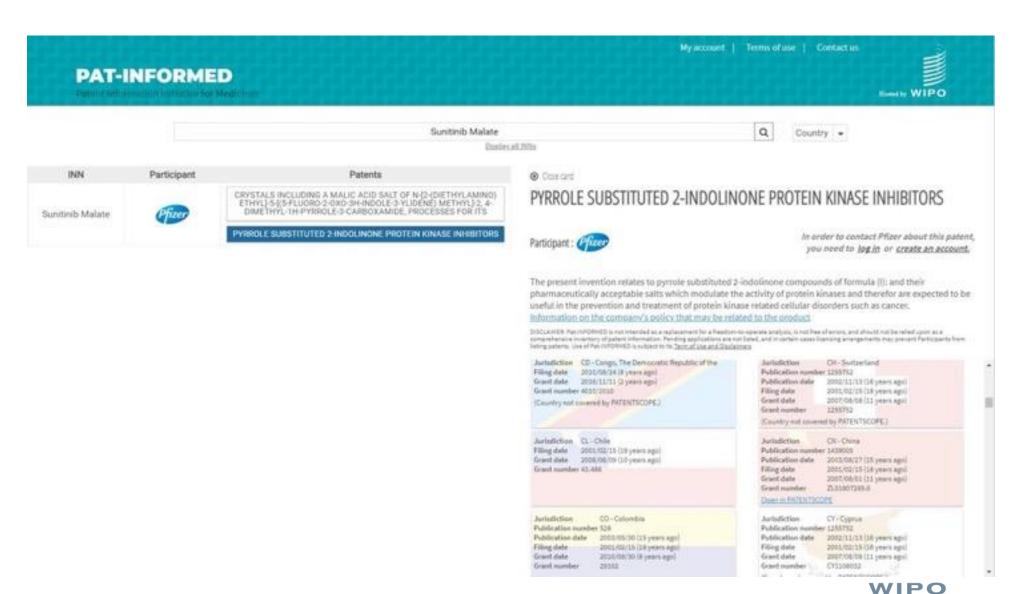


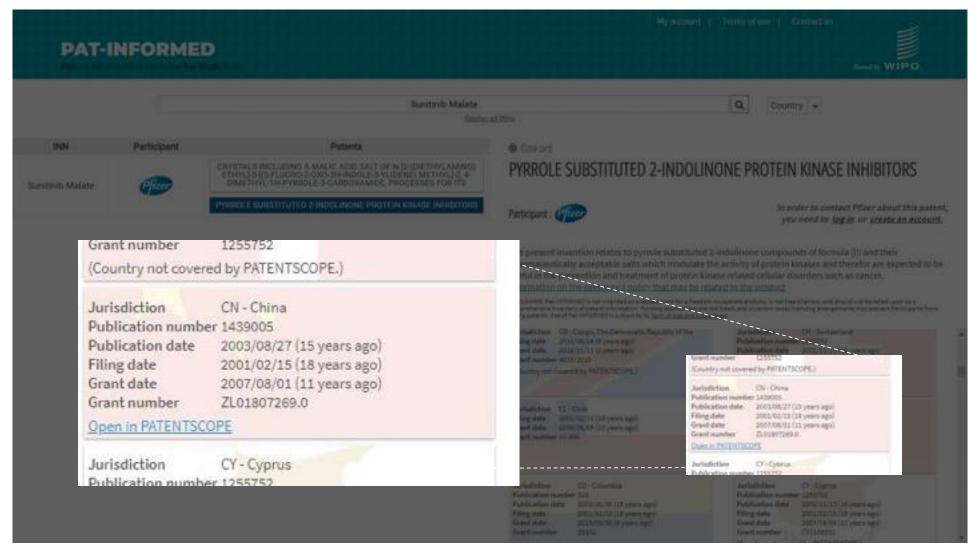
Search pharmaceutical patents by INN - Ex: erlotinib hydrochloride

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My account | Terms of use | Contact us-**PAT-INFORMED** Harth WIPO Search pharmaceutical patents by INN - Ex : erlotinib hydrochloride Q Country . * Dustinued Dista INN Participant **Patents** Fluticasone Propionate, AEROSOL CONTAINER FOR FORMULATIONS OF SALMETEROL XINAFOATE. Salmeterol Xinafoate CALCIUM (3S) TETRAHYDRO 3 FURANYL (18,2R) 3 [[(4-AMINOPHENYL) SULFONYL] (ISOBUTYL) AMINO[-1-BENZYL-2-(PHOSPHONODXY) PROPYLCARBAMATE Fosamprenavir Calcium (iii) British Myers Squids FORMULATIONS OF A SRC/ABL INHIBITOR Dasatinib STABLE POLYMORPH OF N (3-ETHYNYLPHENYLAMINO)-6,7-BISI2-METHOXYETHOXY)-4-Erlotinib Hydrochloride QUINAZOLINAMINE HYDROCHLORIDE, METHODS OF PRODUCTION, AND PHARMACEUTICAL USES THEREOF COMPOUNDS AND METHODS FOR DEVELOPMENT OF RET MODULATORS. Vemurafenib QUINOLINE DERIVATIVE-CONTAINING PHARMACEUTICAL COMPOSITION Lenvatinib Mesilate Azilsartan Medoxomil, SOLID PHARMACEUTICAL COMPOSITION Chlortalidone *anciln Treatment Of Hyperproliferative Disorders With DiaryRydantoin Compounds Enzalutamide G Drietal Myon Squilds CRYSTALLINE EFAVIRENZ Efavirenz Umeclidinium Bromide, PHENETHANOLAMINE DERIVATIVES FOR TREATMENT OF RESPIRATORY DISEASES Vilanterol Trifenatate COUNTER FOR USE WITH A MEDICAMENT DISPENSER Fluticasone Furgate CARBOCYCLIC NUCLEOSIDE HEMISULFATE AND ITS USE IN TREATING VIRAL Abacevir Sulfate INFECTIONS POLYCYCLIC CARBAMOYLPYRIDONE DERIVATIVE HAVING HIV INTEGRASE INHIBITORY ACTIVITY







PATENTSCOPE

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Machine translation

1. (CN1439005) Pyrrole substituted 2-indolinone protein kinase inhibitors

National Biblio. Data | Description | Claims | Drawings | Documents PermaLink 👄 Application Number: 01807269.0 Application Date: 15.02.2001 Publication Number: 1439005 Publication Date: 27.08.2003 Grant Number: 1329390 Grant Date: 01.08.2007 Publication Kind : C Prior PCT appl.: Application Number: PCTUS2001004813; Publication Number: 2001060814 Click to see the data IPC: C07D 403/06 (2) CPC: C07D 233/56 A61K 31/404 C07D 207/33 A61P 43/00 C07D 209/44 C07D 403/14 C07D 231/12 C07D 401/14 C07D 249/08 C07D 401/12 C07D 401/14 C07D 403/06 C07D 403/12 C07D 403/14 Sugen, Inc. Applicants: 苏根公司 法马西亚及厄普约翰公司 Tang Peng-Cho Inventors: 唐彭出 Todd Miller 托德·米勒 Li Xiaoyuan 李小元 孙利 魏忠臣 萨赫扎德·舍拉齐安 梁崇新



Cross-reference information

The application is 35 U/S/C119. (e) and claims the benefit of US provisional application no. 60/182,710 filed feb. 15, 2000., 60/216 filed on jul. 6, 2000, and 60/243,532 filed oct. 27, 2000, and their disclosures are all incorporated herein by reference.

Background

Field of the invention

The invention relates to certain regulatory protein kinases ("PK")) and the active 3-pyrrole substituted 2-dihydroindol-one compound can be used for treating diseases related to PK activity abnormality. Also disclosed is a pharmaceutical composition containing these compounds., the invention relates to a method for treating diseases by using a pharmaceutical composition containing the compounds and a preparation method of the pharmaceutical composition

Technical condition

The following is only provided as background information and is not considered to be a prior art of the present invention

Pk is tyrosine for protein, serine and the hydroxyl on the threonine residue, so that the result of the enzyme with simple activity is surprising.: cell growth, differentiation and proliferation, in this way, all aspects of the cell life are related to the pk activity in such a way that the cell life is in the same or similar manner. In addition, the pk activity abnormality is related to a number of diseases, including a disease that is relatively free of life threats, such as psoriasis, to extremely fatal diseases, such as glioblastoma (brain cancer)

The pk can be conveniently classified into two types of protein tyrosine kinase (pTIF)) and serine-threonine kinase (sThe)

One major aspect of PTK activity is that they are related to growth factor receptors. The growth factor receptor is a cell surface protein. When combined with the growth factor ligand, the growth factor receptor is converted into an active form, with the protein on the inner surface of the cell membrane; This leads to phosphorylation on tyrosine residues of receptors and other proteins, and a compound with a plurality of cytoplasmic signal molecules is formed in the cells, which in turn affect many kinds of cells, such as cell division (proliferation), cell differentiation, cell growth、代谢作用对 胞外微环境的表达等。更完全的讨论请参阅Schlessinger和Ullrich,Neuron,9:303-391(1992),该文包括所有附图都象本申请中充分陈述的一样,被 引用作为参考。

具有PTK活性的生长因子受体被称作受体酪氨酸激酶("RTK")。它们包含一大族具有不同生物活性的跨膜受体。目前,已经确定了至少19种不同的 RTK亚族。一个实例是称作"HER"RTK的亚族,它包括EGFR(上皮生长因子受体)、HER2、HER3和HER4。这些RTK 组成一个胞外糖基化配体结合域、 一个跨膜域和一个胞内胞质催化域,它能将蛋白质上的酪氨酸残基磷酸化。

另一个RTK亚族包括胰岛素受体(IR)、胰岛素样生长因子I受体(IGF-1R)和与胰岛素受体有关的受体(IRR)。IR和IGF-1R与胰岛素、IGF-1和IGF-I相互作用,形成由两个完全胞外糖基化的α亚基和两个穿过细胞膜并包含酪氨酸激酶域的β亚基构成的异四聚体。

第三个RTK亚族被称作血小板源性生长因子受体("PDGFR")组,其中包括PDGFRα、PDGFRβ、CSFIR、c-kit和c-fms。这些受体由含数目不定的

1. (CN1439005) Pyrrole substituted 2-indolinone protein kinase inhibitors

National Biblio Data Description Claims Crawings Documents Note: Text based on automatic Optical Character Recognition processes. Please use the PDF version for legal matters 权利要求书

1. 式(I)化合物或其可药用的盐:

其中:

R1选自氦, 烷基和-C(0)NR8R9:

R²选自氦,卤素,烷氧基,氰基,芳基和-S(0)₂NR¹³R¹⁴;

R³选自氦, 烷氧基, -(CO)R¹⁵, 芳基, 杂芳基和-S(O) 2NR¹³R¹⁴;

R4选自氧:

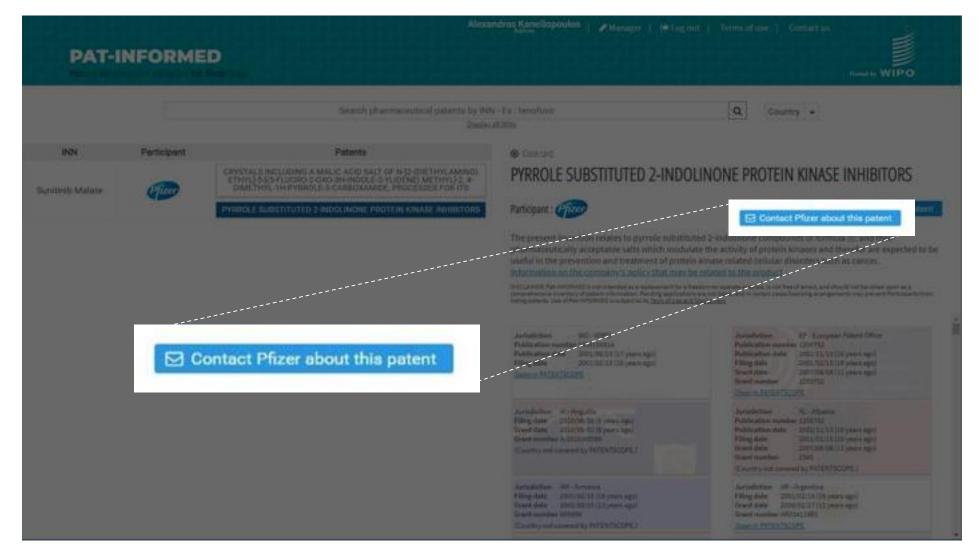
R5选自氮和烷基:

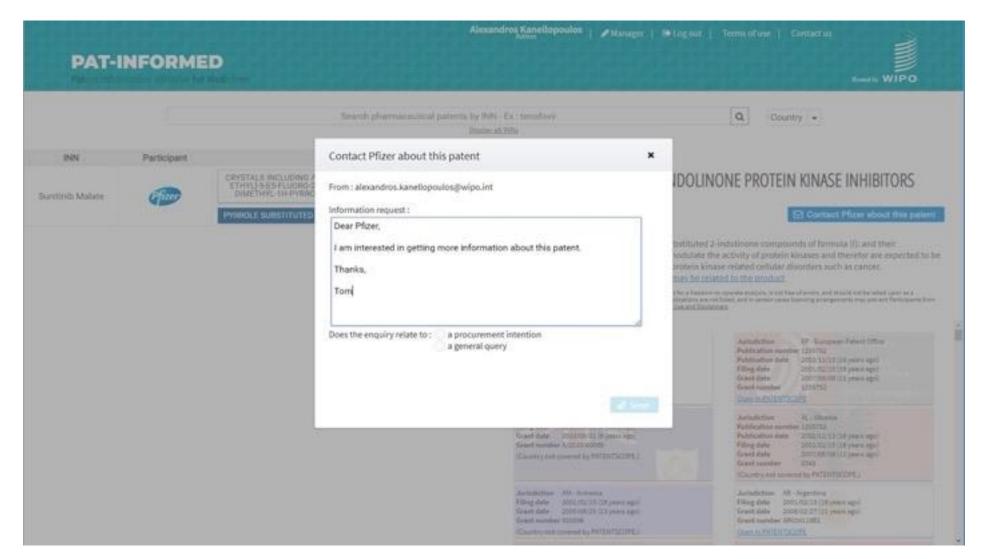
R⁶是-C(0)R¹⁰。

R7选自氦, 烷基和芳基;

R8和R9独立地选自氢和芳基:

pid if acceptible on a pid





Pat-INFORMED limitations

While Pat-INFORMED can be an important tool in informing procurement, it has

limitations

No Freedom to Operate

Pat-INFORMED
does not
provide
freedom to
operate and is
not part of a
regulated
"linkage"

system.



Not Error-Free

It is a database for general information purposes and is not

Public Information

All information, including the advise received in the follow-on enquiry facility, is non-confidential.

Agencies are free to challenge the information and/or seek

new advice.

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A living database, with room for improvement

Honest feedback encouraged

- "Report Inaccuracies" tool implemented to improve data quality.
- Changes to the landing page and disclaimers to improve clarity that the data comes directly from the companies.



On the pipeline

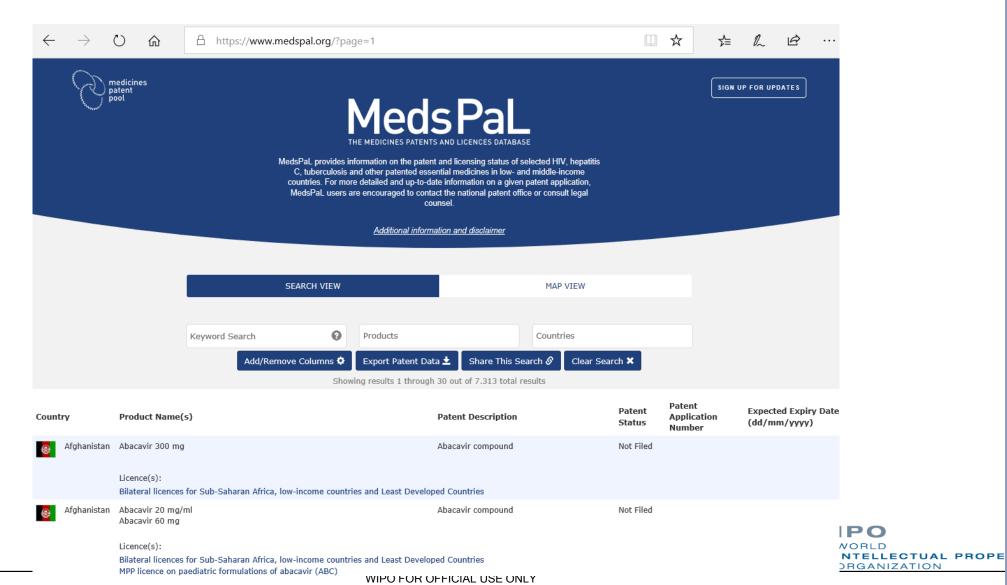
Improved links with Patentscope, specially for regional patents offices





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Thank you

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