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- Click on the Reference Title (see the image above) to view the Reference's record details including bibliographic information, publication history, indexing, graphs and more.

Go to References screen.

Retrieve data for reference.

Access an interactive version of the patent PDF that highlights the specific location of indexed substances.

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PDF displays original patent PDF. PDF+ displays patent PDF with table of important chemistry. Viewer displays interactive version of PDF in PatentPak Viewer.

Click to view patent family member on Reference Detail screen.

Expand to view concepts that characterize the general subject matter of the document.

Expand to view substances associated with document.

Expand to view citations from this document.

Reference Detail (5 of 4,015)

Substances (12) Reactions (0) Cited By (1) PATENTPAK Viewer Citation Map

Patent

Patent Information

Patent Number: WO2015058034

Publication Date: 2015-04-23

Application Number: WO2014-US61038

Application Date: 2014-10-17

Kind Code: A1

Assignee

The Regents of the University of Colorado, A Body Corporate, United States

Source

World Intellectual Property Organization

Database Information

AN: 2015:690500
CAN: 162:544597
CAplus

Language

English

Use of tyrosine kinase inhibitor in cancer treatment

By: Reyland, Mary E.; Wie, Sten; Degregori, James

Abstract: The invention provides methods for reducing apoptosis of non-cancerous cells during a cancer treatment and beneficial effects associated with reducing such apoptosis. In particular, methods of the invention comprise administering a tyrosine kinase inhibitor to a cancer patient who is undergoing cancer treatment in order to reduce apoptosis of non-cancerous cells. In another aspect of the invention the tyrosine kinase inhibitor is selected from the group consisting of dasatinib, imatinib, ponatinib, saracatinib, and a combination thereof.

Figure A: Timeline of treatment and sampling. 0 hr: +TKI +IR; 1 hr: +TKI; 4 hr: +TKI; 30 Days: Collect Saliva; 60 Days: Collect Saliva; 90 Days: Collect Saliva.

Figure B: Saliva Flow / Weight vs Days Following Radiation (0, 63, 90). Legend: Control (black), Dasatinib (grey), IR (white), IR + Dasatinib (light grey).

Figure C: Saliva Flow / Weight vs Days Following Radiation (0, 60). Legend: Control (black), Imatinib (grey), IR (white), IR + Imatinib (light grey).

Figure D: Saliva Flow / Weight vs Days Following Radiation (0, 30). Legend: Control (black), Bosutinib (grey), IR (white), IR + Bosutinib (light grey).

Full Text

Patent Family

Patent	Language	Kind Code	PatentPak Options	Publication Date	Application Number	Application Date
WO2015058034	English	A1	PDF PDF+ Viewer	2015-04-23	WO2014-US61038	2014-10-17
		P			US2013-61893132P	2013-10-18
US20160228436	English	A1	PDF	2016-08-11	US2016-1515029617	2016-04-14

Expand All | Collapse All

Concepts

Substances (12)

Substance Role: Pharmacological Activity (7)

- 943319-70-8
C20H27FN4O
Benzamide, 3-(2-imidazo[1,2-b]pyridazin-3-ylethynyl)-...
PatentPak
- 380843-75-4
C20H22Cl2N4O3
3-Quinolincarbonitrile, 4-[[2,4-dichloro-5-methoxy-...
PatentPak
- 379231-04-6
C22H22ClN4O3
4-Quinazolinamine, N-(5-chloro-1,3-benzodioxol-4-yl)-...
PatentPak

Substance Role: Therapeutic Use (7)

● **Substances:** A Substance search returns results in an intuitive layout. The display highlights most relevant hits, critical property information and high-resolution images of structures.

- Click on View Detail to display the Substance's record detail.

Retrieve data related to answers. Download answers to an external file. Change how answers are displayed.

Select type of structure match. Select filters to focus answers.

Go to Substance Detail screen. View Key Physical Properties on Substance Detail screen.

Share answers by emailing link. Save answers.

Retrieve data for substance.

View Full

Substances (6)

Structure Match

As Drawn (1)

Substructure (6)

Similarity (3,437)

Filter by

Commercial Availability

Available (1)

Not Available (5)

Reaction Role

Product (2)

Reactant (4)

Reference Role

Biological Study (1)

Preparation (2)

Prophetic in Patents (1)

Reactant or Reagent (4)

Uses (1)

Number of Components

Substance Class

Molecular Weight

1219937-98-0

View Detail

Key Physical Properties

Property	Value	Condition
Molecular Weight	404.4±30.0	Press: 760 Torr
Boiling Point (Predicted)	404.4±30.0 °C	
Density (Predicted)	1.504±0.06 g/cm ³	Temp: 20 °C; Press: 760 Torr
pKa (Predicted)	13.86±0.70	Most Acidic Temp: 25 °C

1416321-38-4

View Detail

Property	Value	Condition
Molecular Weight	276.09	-
Boiling Point (Predicted)	428.6±45.0 °C	Press: 760 Torr
Density (Predicted)	1.600±0.06 g/cm ³	Temp: 20 °C; Press: 760 Torr
pKa (Predicted)	13.18±0.70	Most Acidic Temp: 25 °C

● **Reactions:** A Reaction Search displays relevant Reaction Schemes. A Scheme contains reactions with the same Reagents and Products.

- Expand the Scheme, and click View Reaction Detail to details of the reaction.

Go to Reactions screen. View previous or next reaction.

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Click any substance image or name to display substance menu. Use menu options to view substance details (CAS Registry Number), zoom image (magnifier), retrieve associated information (Reactions, Suppliers, References), or copy substance to editor (Edit Substance).

Retrieve suppliers for substance.

View reaction reference on Reference Detail screen.

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Access other full-text options.

Return to All Reaction Schemes

Reaction Detail (Scheme 1, Reaction 2 of 20)

Suppliers (2) Suppliers (25) Suppliers (55)

Step 1

Stage	Reagents	Catalysts	Solvents	Conditions
1	Potassium carbonate	-	Tetrahydrofuran Water	10 min, > 30 °C
2	Water	-	-	10 h, 15 - 30 °C

CAS Reaction Number 31-365-CAS-4160897

Notes

alternative reaction conditions shown

Experimental Protocols

Experimental Procedure

Preparation of N-(4-((6,7-bis(methoxyquinolin-4-yl)oxy)phenyl)-N'-(4-fluorophenyl)cyclopropane-1,1-dicarboxamide

The solution from the previous step containing 1-(4-fluoro-phenyl)carbamoyl-cyclopropanecarbonyl chloride was added to a mixture of 4-(6,7-dimethoxy-quinoline-4-yloxy)phenylamine (3.0 kg), and potassium carbonate (4.0 kg) in THF (27.0 kg), and water (13.0 kg) at a rate such that the hatch temperature did not exceed 3.0 °C. When the reaction was complete (approximately 10 minutes), water (74.0 kg) was added. The mixture was stirred at 15 to 300 °C for approximately 10 hours, which resulted in the precipitation of the product. The product was recovered by filtration, washed with a pre made solution of THF (11.0 kg) and water (24.0 kg), and dried at approximately 659 °C under vacuum for approximately 12 hours to afford the title compound. Yield (free base, 5.0 kg). ¹H NMR (400 MHz, d₂-DMSO): δ 10.2 (s, 1 H), 10.05 (s, 1H), 8.4 (s, 1H), 7.8 (m, 2H), 7.65 (m, 2H), 7.5 (s, 1H), 7.35 (s, 1H), 7.25 (m, 2H), 7.15 (m, 2H), 6.4 (s, 1H), 4.0 (d, 6H), 1.5 (s, 4H) LC/MS: M+H = 502.

Reference

Method of treating cancer and bone cancer pain

By: Schwab, Gisela; et al

World Intellectual Property Organization, WO2012151326 A1 2012-11-08

PATENTPAK Full Text

Patent Information

Patent Number WO2012151326

Publication 2012-11-08

Application Number WO2012-US36191

Application Date 2012-05-02

Kind Code A1

Assignee Exelixis, Inc., United States

History: SciFinderⁿ allows you to find and rerun previous searches.

Search history

References - Enter a query... Draw Search Saved Searches

Filter by

Search Type

- All (23)
- Substances (542)
- Reactions (258)
- Retrosynthesis (9)
- References (850)
- Suppliers (27)

Date

Start Date End Date

mm/dd/yyyy to mm/dd/yyyy

April, 2018

SU	MO	TU	WE	TH	FR	SA
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	1	2	3	4	5

Search History (859)

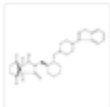
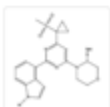
April 25, 2018

- 5:19 PM
 - References: theory of relativity (1.5M) Rerun Search

April 24, 2018

- 4:36 PM
 - References: Advanced Search (745) Rerun Search
Author: Laird, E.

April 19, 2018

- 1:25 PM
 - Retrosynthesis:  Synthetic Depth: 3, Rules Supporting Predictions: Uncommon, Break & Protect Bonds: No Open Plan Complete
- 1:20 PM
 - Retrosynthesis:  Synthetic Depth: 4, Rules Supporting Predictions: Uncommon, Break & Protect Bonds: No Open Plan Complete

April 17, 2018

- 1:16 PM

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