

Aurora Kinase Inhibitor - Pipeline Insight, 2022

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Abstracts

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DelveInsight's, "Aurora Kinase Inhibitor - Pipeline Insight, 2022" report provides comprehensive insights about 10+ companies and 10+ pipeline drugs in Aurora Kinase Inhibitor pipeline landscape. It covers the pipeline drug profiles, including clinical and nonclinical stage products. It also covers the therapeutics assessment by product type, stage, route of administration, and molecule type. It further highlights the inactive pipeline products in this space.

Geography Covered

Global coverage

Aurora Kinase Inhibitor Understanding

Aurora Kinase Inhibitor: Overview

Aurora kinases, a family of serine/threonine kinases, consisting of Aurora A (AURKA), Aurora B (AURKB) and Aurora C (AURKC), are essential kinases for cell division via regulating mitosis especially the process of chromosomal segregation.

Function – Aurora A kinase localizes mainly to the centrosomes and is important for centrosome maturation and separation, which in turn are essential for mitotic entry and bipolar spindle assembly. AuroraB is a component of chromosome passenger complex (CPC), composing of additional three activation regulators INCEP, survivin and borealin. It mediates chromosome condensation by phosphorylating histone H3 on Ser10 and variant centrosome protein A (CENP-A) on Ser7.

Aurora Kinase Inhibitors - All three members of the Aurora kinase family are overexpressed in multiple solid tumors, which is perhaps not surprising considering their functions in cell division. As more and more small-molecule Aurora kinase inhibitors are being developed, these inhibitors can be used not only for cell-biological studies on the functions of Aurora kinases, but also for developing new anti-cancer drugs. These inhibitors obstruct Aurora kinases, which in turn leads to aberrant mitosis. As a result, the p53-dependent checkpoint is activated and results in the induction of a G1-like cell-cycle arrest.

Aurora Kinase Inhibitor Emerging Drugs Chapters

This segment of the Aurora Kinase Inhibitor report encloses its detailed analysis of various drugs in different stages of clinical development, including phase III, II, I, preclinical and Discovery. It also helps to understand clinical trial details, expressive pharmacological action, agreements and collaborations, and the latest news and press releases.

Aurora Kinase Inhibitor Emerging Drugs

Alisertib: Takeda Oncology

Alisertib (MLN8237) is an oral, selective, inhibitor of Aurora A kinase being investigated by Takeda for the treatment of small cell lung cancer. Aurora A kinase is required for cells to divide properly and has been shown to be over-expressed in a variety of cancers, and inhibition of Aurora A kinase represents a novel approach in cancer research. The drug is currently in phase 2 stage of development for the treatment of Acute myeloid leukaemia

Chiauranib: Chipscreen Biosciences

Chiauranib has a new chemical structure which is under global patent protection. The compound is independently designed and developed by Chipscreen Biosciences. It is a highly-selective Aurora B, CSF1R, VEGFR/PDGFR/c-Kit inhibitor, which exerts a comprehensive anti-tumor effect by simultaneously inhibiting tumor angiogenesis, inhibiting tumor cell mitosis and regulating tumor microenvironment. Chiauranib has shown pharmacological activity superior to that of other similar drugs in animal studies.

In the meantime, it has an excellent safety profile despite being a multi-target kinase inhibitor. Chiauranib as a single agent therapy inhibits the overactive Aurora B pathway existed in and related to molecular mechanism of SCLC, which is an important feature of Chiauranib distinct to other antiangiogenic drugs. The drug is currently in phase 3 stage of development for the treatment of Small cell lung cancer.

Further product details are provided in the report.....

Aurora Kinase Inhibitor: Therapeutic Assessment

This segment of the report provides insights about the different Aurora Kinase Inhibitor drugs segregated based on following parameters that define the scope of the report, such as:

Major Players working on Aurora Kinase Inhibitor

There are approx. 10+ key companies which are developing the Aurora Kinase Inhibitor. The companies which have their Aurora Kinase Inhibitor drug candidates in the most advanced stage, i.e. phase III include, Chipscreen Biosciences.

Phases

DelveInsight's report covers around 10+ products under different phases of clinical development like

Late-stage products (Phase III and

Mid-stage products (Phase II and

Early-stage products (Phase I/II and Phase I) along with the details of

Pre-clinical and Discovery stage candidates

Discontinued & Inactive candidates

Route of Administration

Aurora Kinase Inhibitor pipeline report provides the therapeutic assessment of the pipeline drugs by the Route of Administration. Products have been categorized under various ROAs such as

Infusion

Intradermal

Intramuscular

Intranasal

Oral

Parenteral

Subcutaneous

Topical.

Molecule Type

Products have been categorized under various Molecule types such as

Vaccines

Monoclonal Antibody

Peptides

Polymer

Small molecule

Product Type

Drugs have been categorized under various product types like Mono, Combination and

Mono/Combination.

Aurora Kinase Inhibitor: Pipeline Development Activities

The report provides insights into different therapeutic candidates in phase II, I, preclinical and discovery stage. It also analyses Aurora Kinase Inhibitor therapeutic drugs key players involved in developing key drugs.

Pipeline Development Activities

The report covers the detailed information of collaborations, acquisition and merger, licensing along with a thorough therapeutic assessment of emerging Aurora Kinase Inhibitor drugs.

Report Highlights

The companies and academics are working to assess challenges and seek opportunities that could influence Aurora Kinase Inhibitor R&D. The therapies under development are focused on novel approaches for Aurora Kinase Inhibitor.

Aurora Kinase Inhibitor Report Insights

Aurora Kinase Inhibitor Pipeline Analysis

Therapeutic Assessment

Unmet Needs

Impact of Drugs

Aurora Kinase Inhibitor Report Assessment

Pipeline Product Profiles

Therapeutic Assessment

Pipeline Assessment

Inactive drugs assessment

Unmet Needs

Key Questions

Current Scenario and Emerging Therapies:

How many companies are developing Aurora Kinase Inhibitor drugs?

How many Aurora Kinase Inhibitor drugs are developed by each company?

How many emerging drugs are in mid-stage, and late-stage of development for Aurora Kinase Inhibitor?

What are the key collaborations (Industry–Industry, Industry–Academia), Mergers and acquisitions, licensing activities related to the Aurora Kinase Inhibitor therapeutics?

What are the recent trends, drug types and novel technologies developed to overcome the limitation of existing therapies?

What are the clinical studies going on for Aurora Kinase Inhibitor and their status?

What are the key designations that have been granted to the emerging drugs?

Key Players

Takeda Oncology

Chipscreen Biosciences

Aptose Biosciences

Eli Lilly and Company

AstraZeneca

Nerviano Medical Sciences

Advenchen Laboratories

TransThera Biosciences

Abbott Laboratories

Sumitomo Dainippon Pharma Oncology

GlaxoSmithKline

Sareum

Key Products

Alisertib

Chiauranib

Luxepatinib

AK 01

AZD 2811

Danusertib

AL 8326

TT 00420

Ilorasertib

Dubermatinib

GSK-1070916

Research programme: dual aurora/FLT kinase inhibitors

Contents

Introduction

Executive Summary

Aurora Kinase Inhibitor: Overview

- Structure
- Mechanism of Action

Pipeline Therapeutics

- Comparative Analysis

Therapeutic Assessment

- Assessment by Product Type
- Assessment by Stage and Product Type
- Assessment by Route of Administration
- Assessment by Stage and Route of Administration
- Assessment by Molecule Type
- Assessment by Stage and Molecule Type

Aurora Kinase Inhibitor – DelveInsight's Analytical Perspective

In-depth Commercial Assessment

- Aurora Kinase Inhibitor companies' collaborations, Licensing, Acquisition -Deal Value

Trends

Aurora Kinase Inhibitor Collaboration Deals

- Company-Company Collaborations (Licensing / Partnering) Analysis
- Company-University Collaborations (Licensing / Partnering) Analysis

Late Stage Products (Phase III)

- Comparative Analysis

Chiauranib : Chipscreen Biosciences

- Product Description
- Research and Development
- Product Development Activities

Drug profiles in the detailed report.....

Mid Stage Products (Phase II)

- Comparative Analysis

Alisertib: Takeda Oncology

- Product Description
- Research and Development
- Product Development Activities

Drug profiles in the detailed report.....

Early Stage Products (Phase I/II)

- Comparative Analysis

AK 01: Eli Lilly and Company

- Product Description
- Research and Development
- Product Development Activities

Drug profiles in the detailed report.....

Pre-clinical and Discovery Stage Products

- Comparative Analysis

Drug name: Company name

- Product Description
- Research and Development
- Product Development Activities

Drug profiles in the detailed report.....

Inactive Products

- Comparative Analysis

Aurora Kinase Inhibitor Key Companies**Aurora Kinase Inhibitor Key Products****Aurora Kinase Inhibitor- Unmet Needs****Aurora Kinase Inhibitor- Market Drivers and Barriers****Aurora Kinase Inhibitor- Future Perspectives and Conclusion****Aurora Kinase Inhibitor Analyst Views****Aurora Kinase Inhibitor Key Companies****Appendix**

List Of Tables

LIST OF TABLES

- Table 1 Total Products for Aurora Kinase Inhibitor
- Table 2 Late Stage Products
- Table 3 Mid Stage Products
- Table 4 Early Stage Products
- Table 5 Pre-clinical & Discovery Stage Products
- Table 6 Assessment by Product Type
- Table 7 Assessment by Stage and Product Type
- Table 8 Assessment by Route of Administration
- Table 9 Assessment by Stage and Route of Administration
- Table 10 Assessment by Molecule Type
- Table 11 Assessment by Stage and Molecule Type
- Table 12 Inactive Products

List Of Figures

LIST OF FIGURES

- Figure 1 Total Products for Aurora Kinase Inhibitor
- Figure 2 Late Stage Products
- Figure 3 Mid Stage Products
- Figure 4 Early Stage Products
- Figure 5 Preclinical and Discovery Stage Products
- Figure 6 Assessment by Product Type
- Figure 7 Assessment by Stage and Product Type
- Figure 8 Assessment by Route of Administration
- Figure 9 Assessment by Stage and Route of Administration
- Figure 10 Assessment by Molecule Type
- Figure 11 Assessment by Stage and Molecule Type
- Figure 12 Inactive Products

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