

ATR protein inhibitors - Pipeline Insight, 2022

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Abstracts

This report can be delivered to the clients within 2-3 Business Days

DelveInsight's, "ATR protein inhibitors - Pipeline Insight, 2022" report provides comprehensive insights about 9+ companies and 9+ pipeline drugs in ATR protein inhibitors 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

ATR protein inhibitors Understanding

ATR protein inhibitors: Overview

Serine/threonine-protein kinase ATR also known as ataxia telangiectasia and Rad3-related protein (ATR) or FRAP-related protein 1 (FRP1) is an enzyme that, in humans, is encoded by the ATR gene. It is a large kinase of about 301.66 kDa. ATR belongs to the phosphatidylinositol 3-kinase-related kinase protein family. ATR is activated in response to single strand breaks, and works with ATM to ensure genome integrity. ATR/Chk1 inhibitors can potentiate the effect of DNA cross-linking agents such as cisplatin and nucleoside analogues such as gemcitabine. The first clinical trials using inhibitors of ATR have been initiated by AstraZeneca, preferably in ATM-mutated chronic lymphocytic leukaemia (CLL), prolymphocytic leukaemia (PLL) or B-cell lymphoma patients and by Vertex Pharmaceuticals in advanced solid tumours. ATR

provided and exciting point for potential targeting in these solid tumors, as many tumors function through activating the DNA damage response.

Report Highlights

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

ATR protein inhibitors Emerging Drugs Chapters

This segment of the ATR protein inhibitors 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.

ATR protein inhibitors Emerging Drugs

Ceralasertib: AstraZeneca

Ceralasertib, previously known as AZD6738, a potent and selective inhibitor of ataxia telangiectasia and Rad3-related (ATR) kinase was developed as an anticancer agent. Prevention of ATR-mediated signaling leads to the inhibition of DNA damage checkpoint activation, disruption of DNA damage repair, and the induction of tumor cell apoptosis. AZD6738 as a combination therapy participates in phase II clinical trials for the treatment of gastric adenocarcinoma and malignant melanoma (in combination with durvalumab). For the treatment of gastric and breast cancer in combination with carboplatin, or with olaparib or with MEDI4736. Combination of acalabrutinib and AZ6738 is used in phase II trials for patients with chronic lymphocytic Leukemia. Besides, AZD6738 participates in umbrella Phase II study in patients with metastatic non-small cell lung cancer (NSCLC) who have progressed on an anti-programmed cell death-1/anti-programmed cell death ligand 1 (anti-PD-1/PD-L1) containing therapy.

Elimusertib: Bayer

Elimusertib (BAY 1895344) hydrochloride is a potent, orally active and selective ATR inhibitor with an IC₅₀ of 7 nM. Elimusertib hydrochloride has anti-tumor activity. BAY 1895344 reveals significantly improved aqueous solubility, bioavailability across species and no activity in the hERG patch-clamp assay. It also demonstrated very promising efficacy in monotherapy in DNA damage deficient tumor models as well as combination treatment with DNA damage inducing therapies. BAY 1895344 exhibits strong in vivo anti-tumor efficacy in monotherapy in a variety of xenograft models of different indications that are characterized by DDR deficiencies, inducing stable disease in ovarian and colorectal cancer or even complete tumor remission in mantle cell lymphoma models.

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

ATR protein inhibitors: Therapeutic Assessment

This segment of the report provides insights about the different ATR protein inhibitors drugs segregated based on following parameters that define the scope of the report, such as:

Major Players working on ATR protein inhibitors

There are approx. 9+ key companies which are developing the ATR protein inhibitors. The companies which have their ATR protein inhibitors drug candidates in the most advanced stage, i.e. Phase II include, AstraZeneca.

Phases

DelveInsight's report covers around 9+ 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

ATR protein inhibitors 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

Intravaginal

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.

ATR protein inhibitors: Pipeline Development Activities

The report provides insights into different therapeutic candidates in phase III, II, I, preclinical and discovery stage. It also analyses ATR protein inhibitors 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 ATR protein inhibitors drugs.

ATR protein inhibitors Report Insights

ATR protein inhibitors Pipeline Analysis

Therapeutic Assessment

Unmet Needs

Impact of Drugs

ATR protein inhibitors 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 ATR protein inhibitors drugs?

How many ATR protein inhibitors drugs are developed by each company?

How many emerging drugs are in mid-stage, and late-stage of development for the treatment of ATR protein inhibitors?

What are the key collaborations (Industry–Industry, Industry–Academia), Mergers and acquisitions, licensing activities related to the ATR protein inhibitors 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 ATR protein inhibitors and their status?

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

Key Players

AstraZeneca

Bayer

Repare Therapeutics

Merck KGaA

Artios Pharma

Cybrexa Therapeutics

Antengene Corporation

IMPACT Therapeutics

Laevoroc Neuro-Oncology

Vertex Pharmaceuticals

Key Products

Ceralasertib

Elimusertib

RP 3500

Berzosertib

ART 0380

M 1774

CBX-13

ATG 018

IMP 09

LR 02

VE 821

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