

ACVR1 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, "ACVR1 protein inhibitors - Pipeline Insight, 2022" report provides comprehensive insights about 6+ companies and 9+ pipeline drugs in ACVR1 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

ACVR1 protein inhibitors Understanding

ACVR1 protein inhibitors: Overview

The human activin A receptor type I (ACVR1) gene also known as ALK2, is located in chromosome 2q23-q24 and encodes for the 509 amino acid protein. Activin A receptor type I (ACVR1) encodes for a bone morphogenetic protein type I receptor of the TGF β receptor superfamily. It is involved in a wide variety of biological processes, including bone, heart, cartilage, nervous, and reproductive system development and regulation. Moreover, ACVR1 has been extensively studied for its causal role in fibrodysplasia ossificans progressiva (FOP), a rare genetic disorder characterised by progressive heterotopic ossification. ACVR1 is linked to different pathologies, including cardiac malformations and alterations in the reproductive system. The first small molecule inhibitor of ALK2 was dorsomorphin, identified through a classical BMP ventralization

assay in zebrafish embryos. Despite being an amenable drug target, little has been done to-date to systematically evaluate the role of ACVR1 in Diffuse intrinsic pontine glioma (DIPG), nor to screen currently available inhibitors in patient-derived tumour models.

Report Highlights

The companies and academics are working to assess challenges and seek opportunities that could influence ACVR1 protein inhibitors R&D. The therapies under development are focused on novel approaches for ACVR1 protein inhibitors.

ACVR1 protein inhibitors Emerging Drugs Chapters

This segment of the ACVR1 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.

ACVR1 protein inhibitors Emerging Drugs

Momelotinib: Sierra Oncology

Momelotinib is a potent, selective and orally-bioavailable JAK1, JAK2 & ACVR1 inhibitor with a differentiated therapeutic profile in myelofibrosis (MF). Sierra has launched MOMENTUM, a randomized double-blind Phase 3 clinical trial designed to enroll 180 myelofibrosis patients who are symptomatic and anemic, and who have been treated previously with a JAK inhibitor. The U.S. Food and Drug Administration has granted Fast Track designation to momelotinib. Momelotinib is protected by numerous issued patents and pending applications globally, with patent exclusivity potentially extending to 2040.

BLU-782: Turning Point Therapeutics

BLU-782 is an orally administered, potent and highly selective ALK2 inhibitor. It was

designed specifically to target the underlying genetic driver of fibrodysplasia ossificans progressiva (FOP), a rare, severely disabling and ultimately life-shortening genetic disease. FOP is characterized by episodic soft tissue edema (flare-ups), and the progressive replacement of skeletal muscle, ligaments and connective tissue by heterotopic bone. FOP is caused by a gain-of-function mutation in ACVR1, which encodes activin-like kinase 2 (ALK2).

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

ACVR1 protein inhibitors: Therapeutic Assessment

This segment of the report provides insights about the different ACVR1 protein inhibitors drugs segregated based on following parameters that define the scope of the report, such as:

Major Players working on ACVR1 protein inhibitors

There are approx. 6+ key companies which are developing the ACVR1 protein inhibitors. The companies which have their ACVR1 protein inhibitors drug candidates in the most advanced stage, i.e. Phase III include, Sierra Oncology.

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

ACVR1 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.

ACVR1 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 ACVR1 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 ACVR1 protein inhibitors drugs.

ACVR1 protein inhibitors Report Insights

ACVR1 protein inhibitors Pipeline Analysis

Therapeutic Assessment

Unmet Needs

Impact of Drugs

ACVR1 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 ACVR1 protein inhibitors drugs?

How many ACVR1 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 ACVR1 protein inhibitors?

What are the key collaborations (Industry–Industry, Industry–Academia), Mergers and acquisitions, licensing activities related to the ACVR1 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 ACVR1 protein inhibitors and their status?

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

Key Players

Sierra Oncology

Incyte Corporation

Blueprint Medicines

Sumitomo Dainippon Pharma Oncology

Daiichi Sankyo Company

Keros Therapeutics

BioCryst Pharmaceuticals

Key Products

Momelotinib

INCB 000928

BLU 782

Itacnosertib

DS 6016

KER 047

KTI mAb 2.1

KTI 2338

BCX 9499

BCX 9250

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Assessment by Stage and Route of Administration

Assessment by Molecule Type

Assessment by Stage and Molecule Type

ACVR1 protein inhibitors – DelveInsight's Analytical Perspective

Late Stage Products (Phase III)

Comparative Analysis

Momelotinib: Sierra Oncology

Product Description

Research and Development

Product Development Activities

Drug profiles in the detailed report.....

Mid Stage Products (Phase II)

Comparative Analysis

KER 047: Keros Therapeutics

Product Description

Research and Development

Product Development Activities

Drug profiles in the detailed report.....

Early Stage Products (Phase I and I/II)

Comparative Analysis

DS 6016: Daiichi Sankyo Company

Product Description

Research and Development

Product Development Activities

Drug profiles in the detailed report.....

Pre-clinical and Discovery Stage Products

Comparative Analysis
BCX 9499: BioCryst Pharmaceuticals
Product Description
Research and Development
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