

Ribonucleotide reductase inhibitors - Pipeline Insight, 2022

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Abstracts

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DelveInsight's, "Ribonucleotide reductase inhibitors - Pipeline Insight, 2022" report provides comprehensive insights about 3+ companies and 3+ pipeline drugs in Ribonucleotide reductase 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

Ribonucleotide reductase inhibitors Understanding

Ribonucleotide reductase inhibitors: Overview

Ribonucleotide reductase (RR), the rate limiting enzyme in the synthesis and repair of DNA, has been studied as a target for inhibition in the treatment of cancer for many years. While some researchers have focused on RR inhibitors as chemotherapeutic agents, particularly in hematologic malignancies, some of the most promising data has been generated in the field of radiosensitization. RR is a heterodimeric tetramer comprised of two dimers. R1 (also called RRM1 or M1) is the larger, regulatory subunit that is constitutively expressed throughout the cell cycle. It binds allosteric modulators, ribonucleoside diphosphates, and the nucleoside analogs gemcitabine and fludarabine.

There are currently two known smaller subunits that bind R1 to form the active enzyme; R2 (also called RRM2 or M2) and a more recently discovered p53 inducible homolog of the R2 subunit, known as p53R2. The recent advances in the understanding of RR biology and the development of new inhibitors places it at an important crossroads in the story of RR inhibitors. It is likely that the coming years will continue to see the emergence of new RR inhibitors with unique properties.

'Ribonucleotide reductase inhibitors - Pipeline Insight, 2022' report by DelveInsight outlays comprehensive insights of present scenario and growth prospects across the indication. A detailed picture of the Ribonucleotide reductase inhibitors pipeline landscape is provided which includes the disease overview and Ribonucleotide reductase inhibitors treatment guidelines. The assessment part of the report embraces, in depth Ribonucleotide reductase inhibitors commercial assessment and clinical assessment of the pipeline products under development. In the report, detailed description of the drug is given which includes mechanism of action of the drug, clinical studies, NDA approvals (if any), and product development activities comprising the technology, Ribonucleotide reductase inhibitors collaborations, licensing, mergers and acquisition, funding, designations and other product related details.

Report Highlights

? The companies and academics are working to assess challenges and seek opportunities that could influence Ribonucleotide reductase inhibitors R&D. The therapies under development are focused on novel approaches to treat/improve Ribonucleotide reductase inhibitors.

Ribonucleotide reductase inhibitors Emerging Drugs Chapters

This segment of the Ribonucleotide reductase inhibitors report encloses its detailed analysis of various drugs in different stages of clinical development, including phase 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.

Ribonucleotide reductase inhibitors Emerging Drugs

G207: Treovir, LLC

G207 is engineered so that it selectively infects and kills tumor cells leaving healthy cells unharmed. Death of infected tumor cells releases G207 that spreads to infect additional tumor cells and to elicit a florid T-cell immune-related inflammatory response within the tumor. It is believed that the patient's own immune response is a major basis for the anti-tumor efficacy of G207. G207 has been awarded Orphan Drug designation by the US FDA for treatment of medulloblastoma, Glioblastoma and primitive neuroectodermal brain tumor. The drug is currently being evaluated in Phase II stage of development for the treatment of pediatric high-grade glioma.

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

Ribonucleotide reductase inhibitors: Therapeutic Assessment

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

? Major Players in Ribonucleotide reductase inhibitors

There are approx. 3+ key companies which are developing the therapies for Ribonucleotide reductase inhibitors. The companies which have their Ribonucleotide reductase inhibitors drug candidates in the most advanced stage, i.e. phase II include Treovir, LLC.

? Phases

DelveInsight's report covers around 3+ products under different phases of clinical development like

Late stage products (Phase III)

Mid-stage products (Phase II)

Early-stage product (Phase I) along with the details of

Pre-clinical and Discovery stage candidates

Discontinued & Inactive candidates

? Route of Administration

Ribonucleotide reductase 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

Subcutaneous

Intravenous

Intramuscular

? Molecule Type

Products have been categorized under various Molecule types such as

Peptides

Polymer

Small molecule

? Product Type

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

Ribonucleotide reductase inhibitors: Pipeline Development Activities

The report provides insights into different therapeutic candidates in phase II, I, preclinical and discovery stage. It also analyses Ribonucleotide reductase 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 Ribonucleotide

reductase inhibitors drugs.

Ribonucleotide reductase inhibitors Report Insights

Ribonucleotide reductase inhibitors Pipeline Analysis

Therapeutic Assessment

Unmet Needs

Impact of Drugs

Ribonucleotide reductase inhibitors Report Assessment

Pipeline Product Profiles

Therapeutic Assessment

Pipeline Assessment

Inactive drugs assessment

Unmet Needs

Key Questions

Current Treatment Scenario and Emerging Therapies:

How many companies are developing Ribonucleotide reductase inhibitors drugs?

How many Ribonucleotide reductase inhibitors drugs are developed by each company?

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

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

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

Contents

Introduction

Executive Summary

Ribonucleotide reductase inhibitors: Overview

? Structure

? Function

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

Mid Stage Products (Phase II)

? Comparative Analysis

G207: Treovir, LLC

? Product Description

? Research and Development

? Product Development Activities

Drug profiles in the detailed report.....

Early Stage Products (Phase I)

? Comparative Analysis

TAS1553: Astex Pharmaceuticals

? Product Description

? Research and Development

? Product Development Activities

Drug profiles in the detailed report.....

Inactive Products

? Comparative Analysis

Ribonucleotide reductase inhibitors Key Companies

Ribonucleotide reductase inhibitors Key Products

Ribonucleotide reductase inhibitors- Unmet Needs

Ribonucleotide reductase inhibitors- Market Drivers and Barriers

Ribonucleotide reductase inhibitors- Future Perspectives and Conclusion

Ribonucleotide reductase inhibitors Analyst Views

Ribonucleotide reductase inhibitors Key Companies

Appendix

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