

# Vascular endothelial growth factor receptor-2 antagonists - Pipeline Insight, 2022

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## Abstracts

This report can be delivered to the clients within 3-4 Business Days

DelveInsight's, "Vascular endothelial growth factor receptor-2 antagonists - Pipeline Insight, 2022" report provides comprehensive insights about 25+ companies and 25+ pipeline drugs in Vascular endothelial growth factor receptor-2 antagonists 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

Vascular endothelial growth factor receptor-2 antagonists Understanding

Vascular endothelial growth factor receptor-2 antagonists: Overview

Vascular endothelial growth factor receptor-2 (VEGFR-2/KDR/Flk-1) is a high-affinity receptor for vascular endothelial growth factor-A (VEGF-A), and mediates most of the endothelial growth and survival signals from VEGF-A. VEGFR-2 has a typical tyrosine kinase receptor structure with seven immunoglobulin (Ig)-like domains in the extracellular region, as well as a long kinase insert in the tyrosine kinase domain. It utilizes a unique signaling system for DNA synthesis in vascular endothelial cells, i.e. a phospholipase C gamma-protein kinase C-Raf-MAP kinase pathway. Although VEGF-A

binds two receptors, VEGFR-1 and -2, a newly isolated ligand VEGF-E (Orf-virus-derived VEGF) binds and activates only VEGFR-2.

## Report Highlights

The companies and academics are working to assess challenges and seek opportunities that could influence Vascular endothelial growth factor receptor-2 antagonists R&D. The therapies under development are focused on novel approaches for Vascular endothelial growth factor receptor-2 antagonists.

## Vascular endothelial growth factor receptor-2 antagonists Emerging Drugs Chapters

This segment of the Vascular endothelial growth factor receptor-2 antagonists 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.

## Vascular endothelial growth factor receptor-2 antagonists Emerging Drugs

### Nintedanib: Boehringer Ingelheim

Nintedanib is a small molecule kinase inhibitor used in the treatment of pulmonary fibrosis, systemic sclerosis-associated interstitial lung disease, and non-small cell lung cancer (NSCLC). It was first approved for use in the United States in 2014. Within the spectrum of idiopathic pulmonary fibrosis treatment options, nintedanib is currently one of only two disease-modifying therapies available and indicated for the condition (the other being Pirfenidone) and as such is used as a first-line treatment following diagnosis to slow down the progressive loss of lung function. As a chemotherapeutic agent for NSCLC, nintedanib, in combination with Docetaxel, is reserved for patients who have tried and failed first-line chemotherapeutic options. The drug is being evaluated in phase III stage of clinical trials to treat colorectal and ovarian cancer.

### Lenvatinib: Eisai

Lenvatinib is a receptor tyrosine kinase (RTK) inhibitor that inhibits the kinase activities

of vascular endothelial growth factor (VEGF) receptors VEGFR1 (FLT1), VEGFR2 (KDR), and VEGFR3 (FLT4). Lenvatinib also inhibits other RTKs that have been implicated in pathogenic angiogenesis, tumor growth, and cancer progression in addition to their normal cellular functions, including fibroblast growth factor (FGF) receptors FGFR1, 2, 3, and 4; the platelet derived growth factor receptor alpha (PDGFR?), KIT, and RET. These receptor tyrosine kinases (RTKs) located in the cell membrane play a central role in the activation of signal transduction pathways involved in the normal regulation of cellular processes, such as cell proliferation, migration, apoptosis and differentiation, and in pathogenic angiogenesis, lymphogenesis, tumour growth and cancer progression. In particular, VEGF has been identified as a crucial regulator of both physiologic and pathologic angiogenesis and increased expression of VEGF is associated with a poor prognosis in many types of cancers.

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

#### Vascular endothelial growth factor receptor-2 antagonists: Therapeutic Assessment

This segment of the report provides insights about the different Vascular endothelial growth factor receptor-2 antagonists drugs segregated based on following parameters that define the scope of the report, such as:

Major Players working on Vascular endothelial growth factor receptor-2 antagonists

There are approx. 25+ key companies which are developing the Vascular endothelial growth factor receptor-2 antagonists. The companies which have their Vascular endothelial growth factor receptor-2 antagonists drug candidates in the most advanced stage, i.e. Phase III include, Boehringer Ingelheim.

Phases

DelveInsight's report covers around 25+ 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

Vascular endothelial growth factor receptor-2 antagonists 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.

Vascular endothelial growth factor receptor-2 antagonists: Pipeline Development Activities

The report provides insights into different therapeutic candidates in phase III, II, I, preclinical and discovery stage. It also analyses Vascular endothelial growth factor receptor-2 antagonists 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 Vascular endothelial growth factor receptor-2 antagonists drugs.

Vascular endothelial growth factor receptor-2 antagonists Report Insights

Vascular endothelial growth factor receptor-2 antagonists Pipeline Analysis

Therapeutic Assessment

Unmet Needs

Impact of Drugs

Vascular endothelial growth factor receptor-2 antagonists 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 Vascular endothelial growth factor receptor-2 antagonists drugs?

How many Vascular endothelial growth factor receptor-2 antagonists drugs are developed by each company?

How many emerging drugs are in mid-stage, and late-stage of development for the treatment of Vascular endothelial growth factor receptor-2 antagonists?

What are the key collaborations (Industry–Industry, Industry–Academia), Mergers and acquisitions, licensing activities related to the Vascular endothelial growth factor receptor-2 antagonists 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 Vascular endothelial growth factor receptor-2 antagonists and their status?

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

## Key Players

Boehringer Ingelheim

Eisai

Advenchen Laboratories

AiViva BioPharma

Deciphera Pharmaceuticals

Mirati Therapeutics

HUTCMED

Pfizer

Aerie Pharmaceuticals

Xspray Pharma

Ascendis Pharma

Lynkcell

PharmAbcine

Jiangsu Hengrui Medicine

Chipscreen Biosciences

Ocular Therapeutix

Roche

Bayer

Metagone Biotech

Bristol-Myers Squibb

Akeso Biopharma

Clearside Biomedical

ZAI Lab

Wayshine Biopharma

Henlix Biotech

### Key Products

Nintedanib

Lenvatinib

Catequentinib

OTX-TKI

MG D 1609

BAY-57-9352

Lucitanib

ZL-2301

HLX06

WSD 1227

Pazopanib intravitreal

AK 109

CS-2164



CLS 1002

AIV 007

SHR 1020

Ripretinib

Sitravatinib

Olinvacimab

LYN 00101

TransCon VEGF-TKI

Surufatinib

Axitinib

Axitinib implant

Sorafenib nanoparticle formulation

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Assessment by Stage and Route of Administration

Assessment by Molecule Type

Assessment by Stage and Molecule Type

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Comparative Analysis

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Product Description

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Drug profiles in the detailed report.....

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Product Description

Research and Development

Product Development Activities

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Product Description

Research and Development

Product Development Activities

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Pre-clinical and Discovery Stage Products

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Product Description

Research and Development

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Drug profiles in the detailed report.....

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Comparative Analysis

Vascular endothelial growth factor receptor-2 antagonists Key Companies

Vascular endothelial growth factor receptor-2 antagonists Key Products

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Vascular endothelial growth factor receptor-2 antagonists- Market Drivers and Barriers

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Vascular endothelial growth factor receptor-2 antagonists Key Companies

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## I would like to order

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