

# Lipoxygenase Inhibitors - Pipeline Insight, 2022

<https://marketpublishers.com/r/L8981C293B6EN.html>

Date: January 2022

Pages: 80

Price: US\$ 1,500.00 (Single User License)

ID: L8981C293B6EN

## Abstracts

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DelveInsight's, "Lipoxygenase Inhibitor (LOX Inhibitor) - Pipeline Insight, 2022" report provides comprehensive insights about 10+ companies and 10+ pipeline drugs in Lipoxygenase Inhibitor (LOX 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

### Lipoxygenase Inhibitor (LOX Inhibitor) Understanding

#### Lipoxygenase Inhibitor (LOX Inhibitor): Overview

Lipoxygenase (LOX) is a kind of rate-limiting enzyme in the process of arachidonic acid metabolism into leukotriene (LT) which mediates the occurrence of inflammation. The inhibition of LOX can reduce LT, thereby producing an anti-inflammatory effect. Lipoxygenase (LOX) can catalyze fatty acid to produce a number of active metabolic products that are involved in a lot of vital diseases. For instance, type 1 and type 2 diabetes (or both), cardiovascular diseases, hypertension, renal diseases, and neurological conditions such as Alzheimer's disease and Parkinson's disease.

LOX inhibitors are developed more slowly than COX inhibitors due to a lack of specific structure of LOXs. Additionally, as a result of the coexistence of LOXs in the same

organism, LOX inhibitors should be designed seriously so as to achieve the targeting effect. In particular, another regulatory domain that is different from the two known domains of the C-terminal catalytic domain and the N-terminal  $\beta$ -barrel domain has been found, which will provide new ideas for the design of new LOX inhibitors.

## Report Highlights

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

## Lipoxygenase Inhibitor (LOX Inhibitor) Emerging Drugs Chapters

This segment of the Lipoxygenase Inhibitor (LOX 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.

## Lipoxygenase Inhibitor (LOX Inhibitor) Emerging Drugs

### Epeleuton: Afimmune

Epeleuton, previously named DS102, is 15-hydroxy eicosapentaenoic acid (15(S)-HEPE) ethyl ester, a second-generation synthetic n-3 fatty acid and derivative of an endogenous downstream metabolite of EPA. Epeleuton is a new chemical entity with additional therapeutic effects compared with other n-3 fatty acid. It acts as 5-Lipoxygenase Inhibitor (LOX Inhibitor) and is currently in Phase II of clinical trial for Alcoholic hepatitis, Chronic obstructive pulmonary disease, Diabetic neuropathies, Hypertriglyceridaemia, Idiopathic pulmonary fibrosis, Non-alcoholic fatty liver disease, Non-alcoholic steatohepatitis, Type 2 diabetes mellitus.

### Tipelukast: MediciNova

Tipelukast is being developed by MediciNova and is in Phase II for Idiopathic pulmonary

fibrosis, Non-alcoholic steatohepatitis. It acts as 5-Lipoxygenase Inhibitor (LOX Inhibitor).

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

Lipoxygenase Inhibitor (LOX Inhibitor): Therapeutic Assessment

This segment of the report provides insights about the different Lipoxygenase Inhibitor (LOX Inhibitor) drugs segregated based on following parameters that define the scope of the report, such as:

Major Players working on Lipoxygenase Inhibitor (LOX Inhibitor)

There are approx. 10+ key companies which are developing the Lipoxygenase Inhibitor (LOX Inhibitor). The companies which have their Lipoxygenase Inhibitor (LOX Inhibitor) drug candidates in the most advanced stage, i.e. phase II include, Afimmune.

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

Lipoxygenase Inhibitor (LOX 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

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.

## Lipoxygenase Inhibitor (LOX Inhibitor): Pipeline Development Activities

The report provides insights into different therapeutic candidates in phase II, I, preclinical and discovery stage. It also analyses Lipoxygenase Inhibitor (LOX 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 Lipoxygenase Inhibitor (LOX Inhibitor) drugs.

## Lipoxygenase Inhibitor (LOX Inhibitor) Report Insights

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Impact of Drugs

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Therapeutic Assessment

Pipeline Assessment

Inactive drugs assessment

Unmet Needs

## Key Questions

## Current Scenario and Emerging Therapies:

How many companies are developing Lipoxygenase Inhibitor (LOX Inhibitor) drugs?

How many Lipoxygenase Inhibitor (LOX Inhibitor) drugs are developed by each company?

How many emerging drugs are in mid-stage, and late-stage of development for Lipoxygenase Inhibitor (LOX Inhibitor)?

What are the key collaborations (Industry–Industry, Industry–Academia), Mergers and acquisitions, licensing activities related to the Lipoxygenase Inhibitor (LOX 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 Lipoxygenase Inhibitor (LOX Inhibitor) and their status?

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

## Key Players

Afimmune

MediciNova

Mariposa Health Limited

MedWell Laboratories

BioElectron Technology

CSPC Ouyi Pharmaceutical

Veralox Therapeutics

Qurient Therapeutics

### Key Products

Epeleuton

Tipelukast

TA 270

MW 001

PTC 857

Baicalein

VLX 1005

Research programme: 5-Lipoxygenase Inhibitor (LOX Inhibitor)

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Drug profiles in the detailed report.....

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PTC 857: BioElectron Technology

Product Description

Research and Development

Product Development Activities

Drug profiles in the detailed report.....

Pre-clinical and Discovery Stage Products

Comparative Analysis



VLX 1005: Veralox Therapeutics

Product Description

Research and Development

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