

Interleukin 4 inhibitors - Pipeline Insight, 2022

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Abstracts

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DelveInsight's, "Interleukin 4 inhibitors - Pipeline Insight, 2022" report provides comprehensive insights about 4+ companies and 4+ pipeline drugs in Interleukin 4 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

Interleukin 4 inhibitors Understanding

Interleukin 4 inhibitors: Overview

The interleukin 4 (IL4, IL-4) is a cytokine that induces differentiation of naive helper T cells (Th0 cells) to Th2 cells. Upon activation by IL-4, Th2 cells subsequently produce additional IL-4 in a positive feedback loop. IL-4 is produced primarily by mast cells, Th2 cells, eosinophils and basophils. It is closely related and has functions similar to IL-13. Interleukin 4 has many biological roles, including the stimulation of activated B cell and T cell proliferation, and the differentiation of B cells into plasma cells. It is a key regulator in humoral and adaptive immunity. IL-4 induces B cell class switching to IgE, and up-regulates MHC class II production. IL-4 decreases the production of Th1 cells, macrophages, IFN γ , and dendritic cells IL-12. IL-4 signaling determines the levels of CD20 on the surface of normal and malignant B lymphocytes via activation of

transcription factor STAT6.

'Interleukin 4 inhibitors - Pipeline Insight, 2022' report by DelveInsight outlays comprehensive insights of present scenario and growth prospects across the indication. A detailed picture of the Interleukin 4 inhibitors pipeline landscape is provided which includes the disease overview and Interleukin 4 inhibitors treatment guidelines. The assessment part of the report embraces, in depth Interleukin 4 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, Interleukin 4 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 Interleukin 4 inhibitors R&D. The therapies under development are focused on novel approaches to treat/improve Interleukin 4 inhibitors.

Interleukin 4 inhibitors Emerging Drugs Chapters

This segment of the Interleukin 4 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.

Interleukin 4 inhibitors Emerging Drugs

Dupilumab: Regeneron/ Sanofi

Dupilumab is an interleukin-4 (IL-4) receptor alpha antagonist. It is a human monoclonal antibody of the immunoglobulin G4 subclass that inhibits IL-4 and interleukin-13 (IL-13) signaling by specifically binding to the IL-4 receptor alpha subunit, which is shared by the IL-4 and IL-13 receptor complexes. Dupilumab inhibits IL-4 signaling via the type 1 receptor and both IL-4 and IL-13 signaling via the type 2 receptor. By blocking the IL-4R alpha subunit, dupilumab inhibits IL-4 and IL-13 cytokine-induced responses, including the release of proinflammatory cytokines, chemokines, and immunoglobulin E.

Dupilumab is commonly marketed as Dupixent®, which is available as a formulation for subcutaneous injection. It was first approved by the FDA in 2017 for patients 12 and older with eczema or atopic dermatitis. The drug is currently being evaluated in Phase III stage of development for the treatment of chronic obstructive pulmonary disease; chronic urticaria; and Eosinophilic oesophagitis.

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

Interleukin 4 inhibitors: Therapeutic Assessment

This segment of the report provides insights about the different Interleukin 4 inhibitors drugs segregated based on following parameters that define the scope of the report, such as:

? Major Players in Interleukin 4 inhibitors

There are approx. 4+ key companies which are developing the therapies for Interleukin 4 inhibitors. The companies which have their Interleukin 4 inhibitors drug candidates in the most advanced stage, i.e. phase III include Regeneron/ Sanofi.

? Phases

DelveInsight's report covers around 4+ 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

Interleukin 4 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.

Interleukin 4 inhibitors: Pipeline Development Activities

The report provides insights into different therapeutic candidates in phase II, I, preclinical and discovery stage. It also analyses Interleukin 4 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 Interleukin 4 inhibitors drugs.

Interleukin 4 inhibitors Report Insights

Interleukin 4 inhibitors Pipeline Analysis

Therapeutic Assessment

Unmet Needs

Impact of Drugs

Interleukin 4 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 Interleukin 4 inhibitors drugs?

How many Interleukin 4 inhibitors drugs are developed by each company?

How many emerging drugs are in mid-stage, and late-stage of development for the treatment of Interleukin 4 inhibitors?

What are the key collaborations (Industry–Industry, Industry–Academia), Mergers and acquisitions, licensing activities related to the Interleukin 4 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 Interleukin 4 inhibitors and their status?

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

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