

# **Complement C5 (C3 And PZP Like Alpha 2 Macroglobulin Domain Containing Protein 4 or C5) Drugs in Development by Stages, Target, MoA, RoA, Molecule Type and Key Players, 2022 Update**

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## **Abstracts**

Complement C5 (C3 And PZP Like Alpha 2 Macroglobulin Domain Containing Protein 4 or C5) Drugs in Development by Stages, Target, MoA, RoA, Molecule Type and Key Players, 2022 Update

### **SUMMARY**

Complement C5 (C3 And PZP Like Alpha 2 Macroglobulin Domain Containing Protein 4 or C5) pipeline Target constitutes close to 45 molecules. Out of which approximately 41 molecules are developed by companies and remaining by the universities/institutes. The latest report Complement C5 - Drugs In Development, 2022, outlays comprehensive information on the Complement C5 (C3 And PZP Like Alpha 2 Macroglobulin Domain Containing Protein 4 or C5) targeted therapeutics, complete with analysis by indications, stage of development, mechanism of action (MoA), route of administration (RoA) and molecule type.

Complement C5 (C3 And PZP Like Alpha 2 Macroglobulin Domain Containing Protein 4 or C5) - Complement component 5 is a protein is encoded by the C5 gene. Activation of C5 by a C5 convertase initiates the spontaneous assembly of the late complement components, C5-C9, into the membrane attack complex. C5b has a transient binding site for C6. The C5b-C6 complex is the foundation upon which the lytic complex is assembled. Binding to the receptor C5AR1 induces a variety of responses including intracellular calcium release, contraction of smooth muscle, increased vascular permeability, and histamine release from mast cells and basophilic leukocytes. C5a is

also a potent chemokine which stimulates the locomotion of polymorphonuclear leukocytes and directs their migration toward sites of inflammation. The molecules developed by companies in Pre-Registration, Phase III, Phase II, Phase I, IND/CTA Filed, Preclinical and Discovery stages are 1, 13, 3, 7, 1, 15 and 1 respectively. Similarly, the universities portfolio in Preclinical and Discovery stages comprises 3 and 1 molecules, respectively.

Report covers products from therapy areas Immunology, Hematological Disorders, Central Nervous System, Gastrointestinal, Infectious Disease, Ophthalmology, Cardiovascular, Genito Urinary System And Sex Hormones, Dermatology, Musculoskeletal Disorders, Undisclosed, Oncology, Other Diseases and Respiratory which include indications Paroxysmal Nocturnal Hemoglobinuria, Myasthenia Gravis, Atypical Hemolytic Uremic Syndrome (Nondiarrhea - Associated Hemolytic Uremic Syndrome), Neuromyelitis Optica (Devic's Syndrome), Autoimmune Disorders, Chronic Inflammation, Coronavirus Disease 2019 (COVID-19), Coronavirus Disease 2019 (COVID-19) Pneumonia, Lupus Nephritis, Coronavirus Disease 2019 (COVID-19) Associated Acute Lung Injury, Geographic Atrophy, Guillain-Barre Syndrome, Thrombotic Microangiopathy, Unspecified, Anti-Neutrophil Cytoplasmic Antibody-Associated Vasculitis (ANCA Vasculitis), Coronavirus Disease 2019 (COVID-19) Associated Acute Respiratory Distress Syndrome, Dermatomyositis, IgA Nephropathy (Berger's Disease), Kidney Disease (Nephropathy), Unspecified Immunological Disorders, Uveitis, Acute Lung Injury, Age Related Macular Degeneration, Amyotrophic Lateral Sclerosis, Antiphospholipid Syndrome, Asthma, Atopic Keratoconjunctivitis, Bacterial Sepsis, Bullous Pemphigoid, Cardiovascular Inflammation, Choroidal Neovascularization, Chronic Obstructive Pulmonary Disease (COPD), Fibrosis, Granulomatosis with Polyangiitis (Wegener's Granulomatosis), Hematuria, Hemorrhagic Shock, Hidradenitis Suppurativa, Intermediate Uveitis, Juvenile Macular Degeneration (Stargardt Disease), Liver Transplant Rejection, Lung Adenocarcinoma, Lung Disease, Microscopic Polyangiitis (MPA), Multiple Organ Failure (Multiple Organ Dysfunction Syndrome), Non-infectious Uveitis, Posterior Uveitis, Primary Progressive Multiple Sclerosis (PPMS), Proteinuria, Pyoderma Gangrenosum, Rheumatoid Arthritis, Sepsis, Septic Shock, Sickle Cell Disease With Vaso-Occlusive Crisis, Squamous Cell Carcinoma, Subarachnoid Hemorrhage, Sudoriferous (Sweat) Gland Disorders, Trauma, Typical Hemolytic Uremic Syndrome (Shiga-Toxin Associated Hemolytic Uremic Syndrome) and Unspecified Ophthalmological Disorders.

Furthermore, this report also reviews key players involved in Complement C5 (C3 And PZP Like Alpha 2 Macroglobulin Domain Containing Protein 4 or C5) targeted therapeutics development with respective active and dormant or discontinued projects.

Driven by data and information sourced from proprietary databases, company/university websites, clinical trial registries, conferences, SEC filings, investor presentations and featured press releases from company/university sites and industry-specific third party sources.

**Note:** Certain content/sections in the pipeline guide may be removed or altered based on the availability and relevance of data.

## SCOPE

The report provides a snapshot of the global therapeutic landscape for Complement C5 (C3 And PZP Like Alpha 2 Macroglobulin Domain Containing Protein 4 or C5)

The report reviews Complement C5 (C3 And PZP Like Alpha 2 Macroglobulin Domain Containing Protein 4 or C5) targeted therapeutics under development by companies and universities/research institutes based on information derived from company and industry-specific sources

The report covers pipeline products based on various stages of development ranging from pre-registration till discovery and undisclosed stages

The report features descriptive drug profiles for the pipeline products which includes, product description, descriptive MoA, R&D brief, licensing and collaboration details & other developmental activities

The report reviews key players involved in Complement C5 (C3 And PZP Like Alpha 2 Macroglobulin Domain Containing Protein 4 or C5) targeted therapeutics and enlists all their major and minor projects

The report assesses Complement C5 (C3 And PZP Like Alpha 2 Macroglobulin Domain Containing Protein 4 or C5) targeted therapeutics based on mechanism of action (MoA), route of administration (RoA) and molecule type

The report summarizes all the dormant and discontinued pipeline projects

The report reviews latest news and deals related to Complement C5 (C3 And PZP Like Alpha 2 Macroglobulin Domain Containing Protein 4 or C5) targeted therapeutics

## REASONS TO BUY

Gain strategically significant competitor information, analysis, and insights to formulate effective R&D strategies

Identify emerging players with potentially strong product portfolio and create effective counter-strategies to gain competitive advantage

Identify and understand the targeted therapy areas and indications for Complement C5 (C3 And PZP Like Alpha 2 Macroglobulin Domain Containing Protein 4 or C5) Identify the use of drugs for target identification and drug repurposing

Identify potential new clients or partners in the target demographic

Develop strategic initiatives by understanding the focus areas of leading companies

Plan mergers and acquisitions effectively by identifying key players and it's most promising pipeline therapeutics

Devise corrective measures for pipeline projects by understanding Complement C5 (C3 And PZP Like Alpha 2 Macroglobulin Domain Containing Protein 4 or C5) development landscape

Develop and design in-licensing and out-licensing strategies by identifying prospective partners with the most attractive projects to enhance and expand business potential and scope

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Featured News & Press Releases

Sep 27, 2022: Iveric Bio to present top-line results for avacincaptad pegol from phase 3 GATHER2 clinical trial in geographic atrophy at AAO 2022 Annual Meeting

Sep 26, 2022: EC approves Alexion's Ultomiris for generalised myasthenia gravis

Sep 22, 2022: CANbridge Pharmaceuticals data on CAN106 to be presented at two conferences

Sep 09, 2022: InflaRx to present at upcoming scientific and investor conferences

Sep 08, 2022: Inflarx announces vilobelimab phase III results in critically ill covid-19 patients published in The Lancet Respiratory Medicine

Sep 06, 2022: Iveric Bio announces positive topline data from Zimura GATHER2 phase 3 clinical trial in geographic atrophy

Aug 29, 2022: Alnylam reports positive results from phase 2 study of investigational Cemdisiran for the treatment of IgA Nephropathy

Aug 26, 2022: Kira Pharmaceuticals to present new preclinical data on lead asset KP104 at the 2022 European Meeting on Complement in Human Disease Conference

Aug 25, 2022: Ultomiris approved in Japan for the treatment of adults with generalised myasthenia gravis

Aug 24, 2022: Amgen reports positive data from Phase III trial of biosimilar for PNH

Aug 10, 2022: Anti-C5 recycling antibody crovalimab obtains priority review in china for the treatment of paroxysmal nocturnal hemoglobinuria

Aug 03, 2022: ImmunAbs announces US FDA approval for a phase 1 clinical trial

Aug 01, 2022: Akari Therapeutics narrows pipeline focus

Jul 28, 2022: Kira Pharmaceuticals receives FDA Orphan Drug Designation for KP104, a bifunctional antibody fusion protein, for the treatment of Paroxysmal Nocturnal Hemoglobinuria

Jul 28, 2022: Akari Therapeutics announces positive results from recent pre-clinical studies of investigational PASylated nomacopan that support the potential to advance research toward IND/IMPd for clinical trials in geographic atrophy

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