

# **Caspase 8 (Apoptotic Cysteine Protease or Apoptotic Protease Mch 5 or CAP4 or FADD Homologous ICE/Ced-3 Like Protease or FADD Like ICE or ICE Like Apoptotic Protease 5 or MORT1 Associated Ced 3 Homolog or CASP8 or EC 3.4.22.61) - Pipeline Review, H2 2018**

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## **Abstracts**

Caspase 8 (Apoptotic Cysteine Protease or Apoptotic Protease Mch 5 or CAP4 or FADD Homologous ICE/Ced-3 Like Protease or FADD Like ICE or ICE Like Apoptotic Protease 5 or MORT1 Associated Ced 3 Homolog or CASP8 or EC 3.4.22.61) - Pipeline Review, H2 2018

## **SUMMARY**

Caspase 8 (Apoptotic Cysteine Protease or Apoptotic Protease Mch 5 or CAP4 or FADD Homologous ICE/Ced-3 Like Protease or FADD Like ICE or ICE Like Apoptotic Protease 5 or MORT1 Associated Ced 3 Homolog or CASP8 or EC 3.4.22.61) - Caspase-8 is a caspase protein, encoded by the CASP8 gene. It binds to the adapter molecule FADD recruits it to either receptor. The resulting aggregate called death-inducing signaling complex (DISC) performs CASP8 proteolytic activation.

The active dimeric enzyme is then liberated from the DISC and activates downstream apoptotic proteases. Proteolytic fragments of the N-terminal propeptide (termed CAP3, CAP5 and CAP6) are likely retained in the DISC. Cleaves and activates CASP3, CASP4, CASP6, CASP7, CASP9 and CASP10. It participates in the GZMB apoptotic pathways. It cleaves ADPRT. Hydrolyzes the small-molecule substrate, Ac-Asp-Glu-Val-Asp-|-AMC.

Caspase 8 (Apoptotic Cysteine Protease or Apoptotic Protease Mch 5 or CAP4 or FADD Homologous ICE/Ced-3 Like Protease or FADD Like ICE or ICE Like Apoptotic Protease 5 or MORT1 Associated Ced 3 Homolog or CASP8 or EC 3.4.22.61) pipeline Target constitutes close to 6 molecules. Out of which approximately 4 molecules are developed by companies and remaining by the universities/institutes.

The molecules developed by companies in Phase III, Phase II and Preclinical stages are 1, 1 and 2 respectively. Similarly, the universities portfolio in Preclinical and Discovery stages comprises 1 and 1 molecules, respectively. Report covers products from therapy areas Oncology, Gastrointestinal, Cardiovascular, Genito Urinary System And Sex Hormones, Hematological Disorders, Immunology, Infectious Disease, Respiratory and Toxicology which include indications Colorectal Cancer, Autoimmune Hepatitis, Bladder Cancer, Chemotherapy Induced Neutropenia, Febrile Neutropenia, Glioblastoma Multiforme (GBM), Hepatitis C, Hepatocellular Carcinoma, Liver Cirrhosis, Liver Failure (Hepatic Insufficiency), Liver Fibrosis, Liver Transplant Rejection, Melanoma, Metastatic Brain Tumor, Metastatic Breast Cancer, Metastatic Hormone Refractory (Castration Resistant, Androgen-Independent) Prostate Cancer, Metastatic Pancreatic Cancer, Multiple Myeloma (Kahler Disease), Non Alcoholic Fatty Liver Disease (NAFLD), Non-Alcoholic Steatohepatitis (NASH), Non-Small Cell Lung Cancer, Pancreatic Islet Transplant Rejection, Portal Hypertension, Primary Sclerosing Cholangitis, Pulmonary Fibrosis, Renal Failure and Small-Cell Lung Cancer.

The latest report Caspase 8 - Pipeline Review, H2 2018, outlays comprehensive information on the Caspase 8 (Apoptotic Cysteine Protease or Apoptotic Protease Mch 5 or CAP4 or FADD Homologous ICE/Ced-3 Like Protease or FADD Like ICE or ICE Like Apoptotic Protease 5 or MORT1 Associated Ced 3 Homolog or CASP8 or EC 3.4.22.61) targeted therapeutics, complete with analysis by indications, stage of development, mechanism of action (MoA), route of administration (RoA) and molecule type.

It also reviews key players involved in Caspase 8 (Apoptotic Cysteine Protease or Apoptotic Protease Mch 5 or CAP4 or FADD Homologous ICE/Ced-3 Like Protease or FADD Like ICE or ICE Like Apoptotic Protease 5 or MORT1 Associated Ced 3 Homolog or CASP8 or EC 3.4.22.61) targeted therapeutics development with respective active and dormant or discontinued projects.

The report is built using 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 Caspase 8 (Apoptotic Cysteine Protease or Apoptotic Protease Mch 5 or CAP4 or FADD Homologous ICE/Ced-3 Like Protease or FADD Like ICE or ICE Like Apoptotic Protease 5 or MORT1 Associated Ced 3 Homolog or CASP8 or EC 3.4.22.61)

The report reviews Caspase 8 (Apoptotic Cysteine Protease or Apoptotic Protease Mch 5 or CAP4 or FADD Homologous ICE/Ced-3 Like Protease or FADD Like ICE or ICE Like Apoptotic Protease 5 or MORT1 Associated Ced 3 Homolog or CASP8 or EC 3.4.22.61) 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 Caspase 8 (Apoptotic Cysteine Protease or Apoptotic Protease Mch 5 or CAP4 or FADD Homologous ICE/Ced-3 Like Protease or FADD Like ICE or ICE Like Apoptotic Protease 5 or MORT1 Associated Ced 3 Homolog or CASP8 or EC 3.4.22.61) targeted therapeutics and enlists all their major and minor projects

The report assesses Caspase 8 (Apoptotic Cysteine Protease or Apoptotic Protease Mch 5 or CAP4 or FADD Homologous ICE/Ced-3 Like Protease or FADD Like ICE or ICE Like Apoptotic Protease 5 or MORT1 Associated Ced 3 Homolog or CASP8 or EC 3.4.22.61) 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 Caspase 8 (Apoptotic Cysteine Protease or Apoptotic Protease Mch 5 or CAP4 or FADD Homologous ICE/Ced-3 Like Protease or FADD Like ICE or ICE Like Apoptotic Protease 5 or MORT1 Associated Ced 3 Homolog or CASP8 or EC 3.4.22.61) 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 Caspase 8 (Apoptotic Cysteine Protease or Apoptotic Protease Mch 5 or CAP4 or FADD Homologous ICE/Ced-3 Like Protease or FADD Like ICE or ICE Like Apoptotic Protease 5 or MORT1 Associated Ced 3 Homolog or CASP8 or EC 3.4.22.61)

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 Caspase 8 (Apoptotic Cysteine Protease or Apoptotic Protease Mch 5 or CAP4 or FADD Homologous ICE/Ced-3 Like Protease or FADD Like ICE or ICE Like Apoptotic Protease 5 or MORT1 Associated Ced 3 Homolog or CASP8 or EC 3.4.22.61) 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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BeyondSpring Pharmaceuticals Inc

Conatus Pharmaceuticals Inc

Novartis AG

Caspase 8 (Apoptotic Cysteine Protease or Apoptotic Protease Mch 5 or CAP4 or FADD Homologous ICE/Ced-3 Like Protease or FADD Like ICE or ICE Like Apoptotic Protease 5 or MORT1 Associated Ced 3 Homolog or CASP8 or EC 3.4.22.61) - Drug

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Caspase 8 (Apoptotic Cysteine Protease or Apoptotic Protease Mch 5 or CAP4 or FADD Homologous ICE/Ced-3 Like Protease or FADD Like ICE or ICE Like Apoptotic Protease 5 or MORT1 Associated Ced 3 Homolog or CASP8 or EC 3.4.22.61) -  
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Jul 02, 2018: Conatus Pharmaceuticals' Pan-caspase Inhibitor Emericasan Improves Survival and Portal Hypertension in a Mouse Model of Cirrhosis

Jun 25, 2018: BeyondSpring's Principal Investigator in China for Chemotherapy-Induced Neutropenia Delivered Keynote Presentation at 12th Annual Chinese Symposium on Medical Oncology and 7th Annual Meeting of the Chinese Association for Clinical Oncologists

May 17, 2018: BeyondSpring to Present Positive Data From Prospective Phase 2 Trial Comparing Plinabulin to Neulasta for the Prevention of Chemotherapy-Induced Neutropenia at 2018 ASCO Annual Meeting

Apr 30, 2018: Conatus Announces Completion of Enrollment in ENCORE-PH Phase 2b Clinical Trial of Emricasan in Patients with NASH Cirrhosis and Severe Portal Hypertension

Apr 25, 2018: BeyondSpring to Present Neutropenia Clinical Trial Data on Lead Asset, Plinabulin, at 2018 ASCO Annual Meeting

Apr 18, 2018: Conatus Pharmaceuticals IDN-7314 Pan-caspase Inhibitor Reduces Hepatic Tissue Factor-Driven Coagulation In Vitro and In Vivo

Apr 17, 2018: BeyondSpring Presents Lead Asset's Mechanism Data for Prevention of Chemotherapy-Induced Neutropenia

Apr 09, 2018: Conatus Pharmaceuticals Announces Upcoming Oral Presentation at EASL Annual Meeting

Apr 04, 2018: Conatus Pharmaceuticals Announces Top-line Results from Phase 2b POLT-HCV-SVR Clinical Trial

Mar 19, 2018: BeyondSpring Announces Initiation of Phase 3 Clinical Development for Plinabulin for Prevention of Chemotherapy-Induced Neutropenia

Mar 05, 2018: Conatus Pharmaceuticals to Highlight Anticipated Clinical Data Readouts at Upcoming Investor Conferences

Feb 05, 2018: BeyondSpring Summarizes Key Messages from KOL Call regarding Lead Asset Plinabulin for the Prevention of Docetaxel Chemotherapy-Induced Neutropenia

Jan 26, 2018: BeyondSpring Presents Promising Data for Lead Asset Plinabulin at 2018 ASCO-SITC Clinical Immuno-Oncology Symposium

Jan 17, 2018: BeyondSpring to Present Data from Phase 2 Portion of Study 105 Phase 2/3 Trial with Plinabulin for the Prevention of Docetaxel Chemotherapy-Induced Neutropenia at 2018 ASCO-SITC Clinical Immuno-Oncology Symposium

Dec 14, 2017: BeyondSpring Meets Primary Objective in Phase 2 Portion of Phase 2/3 Trial (Study 105) with Plinabulin for the Prevention of Docetaxel Chemotherapy-Induced Neutropenia

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### COMPANIES MENTIONED

BeyondSpring Pharmaceuticals Inc

Conatus Pharmaceuticals Inc

Novartis AG

## I would like to order

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