

# Mitogen Activated Protein Kinase 3 - Pipeline Review, H2 2019

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## Abstracts

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### SUMMARY

Mitogen Activated Protein Kinase 3 (ERT2 or Insulin Stimulated MAP2 Kinase or Extracellular Signal Regulated Kinase 1 or MAP Kinase Isoform p44 or Microtubule Associated Protein 2 Kinase or p44 ERK1 or MAPK3 or EC 2.7.11.24) - Mitogen-activated protein kinase 3 is an enzyme encoded by the MAPK3 gene. It acts in a signaling cascade that regulates various cellular processes such as proliferation, differentiation, and cell cycle progression in response to a variety of extracellular signals. It is activated by upstream kinases resulting in its translocation to the nucleus where it phosphorylates nuclear targets.

Mitogen Activated Protein Kinase 3 (ERT2 or Insulin Stimulated MAP2 Kinase or Extracellular Signal Regulated Kinase 1 or MAP Kinase Isoform p44 or Microtubule Associated Protein 2 Kinase or p44 ERK1 or MAPK3 or EC 2.7.11.24) pipeline Target constitutes close to 11 molecules. The molecules developed by companies in Phase II, Phase I, Preclinical and Discovery stages are 3, 5, 1 and 2 respectively. Report covers products from therapy areas Oncology, Immunology and Musculoskeletal Disorders which include indications Non-Small Cell Lung Cancer, Metastatic Colorectal Cancer, Metastatic Melanoma, Pancreatic Ductal Adenocarcinoma, Colorectal Cancer, Esophageal Cancer, Melanoma, Solid Tumor, Acute Myelocytic Leukemia (AML, Acute Myeloblastic Leukemia), Adenocarcinoma, Bile Duct Cancer (Cholangiocarcinoma), Chronic Lymphocytic Leukemia (CLL), Gastric Cancer, Head And Neck Cancer Squamous Cell Carcinoma, Hepatocellular Carcinoma, Knee Osteoarthritis, Mantle Cell Lymphoma, Marginal Zone B-cell Lymphoma, Metastatic Adenocarcinoma of The

Pancreas, Metastatic Pancreatic Cancer, Metastatic Uveal Melanoma, Myelodysplastic Syndrome, Pancreatic Cancer, Psoriasis, Refractory Acute Myeloid Leukemia, Relapsed Acute Myeloid Leukemia, Renal Cell Carcinoma and Waldenstrom Macroglobulinemia (Lymphoplasmacytic Lymphoma).

The latest report Mitogen Activated Protein Kinase 3 - Pipeline Review, H2 2019, outlays comprehensive information on the Mitogen Activated Protein Kinase 3 (ERT2 or Insulin Stimulated MAP2 Kinase or Extracellular Signal Regulated Kinase 1 or MAP Kinase Isoform p44 or Microtubule Associated Protein 2 Kinase or p44 ERK1 or MAPK3 or EC 2.7.11.24) 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 Mitogen Activated Protein Kinase 3 (ERT2 or Insulin Stimulated MAP2 Kinase or Extracellular Signal Regulated Kinase 1 or MAP Kinase Isoform p44 or Microtubule Associated Protein 2 Kinase or p44 ERK1 or MAPK3 or EC 2.7.11.24) 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.

## **SCOPE**

The report provides a snapshot of the global therapeutic landscape for Mitogen Activated Protein Kinase 3 (ERT2 or Insulin Stimulated MAP2 Kinase or Extracellular Signal Regulated Kinase 1 or MAP Kinase Isoform p44 or Microtubule Associated Protein 2 Kinase or p44 ERK1 or MAPK3 or EC 2.7.11.24)

The report reviews Mitogen Activated Protein Kinase 3 (ERT2 or Insulin Stimulated MAP2 Kinase or Extracellular Signal Regulated Kinase 1 or MAP Kinase Isoform p44 or Microtubule Associated Protein 2 Kinase or p44 ERK1 or MAPK3 or EC 2.7.11.24) 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 Mitogen Activated Protein Kinase 3 (ERT2 or Insulin Stimulated MAP2 Kinase or Extracellular Signal Regulated Kinase 1 or MAP Kinase Isoform p44 or Microtubule Associated Protein 2 Kinase or p44 ERK1 or MAPK3 or EC 2.7.11.24) targeted therapeutics and enlists all their major and minor projects

The report assesses Mitogen Activated Protein Kinase 3 (ERT2 or Insulin Stimulated MAP2 Kinase or Extracellular Signal Regulated Kinase 1 or MAP Kinase Isoform p44 or Microtubule Associated Protein 2 Kinase or p44 ERK1 or MAPK3 or EC 2.7.11.24) 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 Mitogen Activated Protein Kinase 3 (ERT2 or Insulin Stimulated MAP2 Kinase or Extracellular Signal Regulated Kinase 1 or MAP Kinase Isoform p44 or Microtubule Associated Protein 2 Kinase or p44 ERK1 or MAPK3 or EC 2.7.11.24) 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 Mitogen Activated Protein Kinase 3 (ERT2 or Insulin Stimulated MAP2 Kinase or Extracellular Signal Regulated Kinase 1 or MAP Kinase Isoform p44 or Microtubule Associated Protein 2 Kinase or p44 ERK1 or MAPK3 or EC 2.7.11.24)

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 Mitogen Activated Protein Kinase 3 (ERT2 or Insulin Stimulated MAP2 Kinase or Extracellular Signal Regulated Kinase 1 or MAP Kinase Isoform p44 or Microtubule Associated Protein 2 Kinase or p44 ERK1 or MAPK3 or EC 2.7.11.24) 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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Involved in Therapeutics Development

Antengene Corp

Asana BioSciences LLC

Astex Pharmaceuticals Inc

BioMed Valley Discoveries Inc

Eli Lilly and Co

Kalyra Pharmaceuticals Inc

Kura Oncology Inc

Merck & Co Inc

Merck KGaA

Shanghai Green Valley Pharmaceutical Co Ltd

Mitogen Activated Protein Kinase 3 (ERT2 or Insulin Stimulated MAP2 Kinase or Extracellular Signal Regulated Kinase 1 or MAP Kinase Isoform p44 or Microtubule Associated Protein 2 Kinase or p44 ERK1 or MAPK3 or EC 2.7.11.24) - Drug Profiles

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Mechanism Of Action

R&D Progress

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Product Description

Mechanism Of Action

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LY-3214996 - Drug Profile

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Featured News & Press Releases

Oct 24, 2019: Asana BioSciences to present phase 1 clinical safety and efficacy data of oral, once-weekly, ASN007, a novel ERK 1/2 inhibitor, at the AACR-NCI-EORTC Molecular Targets and Cancer Therapeutics Conference

Oct 08, 2019: EMD Serono Announces JAMA Publication of Phase II Results of Sprifermin for Osteoarthritis Structure Modification

May 15, 2019: Eli Lilly presents update on ERK inhibitor, LY3214996 at ASCO 2019

Apr 17, 2018: Merck to Present on Sprifermin at OARSI 2018 World Congress

Apr 10, 2018: Asana BioSciences Announces Presentations of ASN007 (ERK1/2 inhibitor) at the American Association for Cancer Research Annual Meeting

Apr 09, 2018: Kura Oncology Presents Poster on KO-947 at AACR Annual Meeting 2018

Feb 22, 2018: Phase I Clinical Trial Shows Promise as Investigational Drug for Melanoma

Jan 03, 2018: Asana BioSciences Announces Acceptance of IND Application for Its Oral ERK1/2 Inhibitor

Dec 15, 2017: First-in-class ERK1/2 Inhibitor Safe, Shows Early Efficacy in Patients With Advanced Solid Tumors

Nov 04, 2017: Merck KGaA, Darmstadt, Germany Presents Late Breaking Clinical Data from Phase II Trial of Sprifermin for Osteoarthritis Disease Modification

Oct 24, 2017: Asana BioSciences to Present Update On Lead Molecule ASN-007 at

AACR-NCI-EORTC International Conference on Molecular Targets and Cancer  
Therapeutics

Oct 20, 2017: Merck Presents New Data on Sprifermin at 2017 ACR/ARHP Annual  
Meeting

Oct 03, 2017: First-in-class ERK inhibitor ulixertinib (BVD-523) shows promise in  
preclinical cancer models

Jun 21, 2017: NovellusDx Announced the Completion of the First Phase of an In-vitro  
Study of BioMed Valley Discoveries' BVD523

May 26, 2017: BioMed Valley Discoveries announces presentation of early clinical  
activity of first-in-class cancer therapy ulixertinib at 2017 ASCO annual meeting

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Number of Products by Stage and Molecule Types, H2 2019

### COMPANIES MENTIONED

Antengene Corp

Asana BioSciences LLC

Astex Pharmaceuticals Inc

BioMed Valley Discoveries Inc

Eli Lilly and Co

Kalyra Pharmaceuticals Inc

Kura Oncology Inc

Merck & Co Inc

Merck KGaA

Shanghai Green Valley Pharmaceutical Co Ltd

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