

# Transforming Growth Factor Beta 1 (TGFB1) - Drugs in Development, 2021

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## Abstracts

Transforming Growth Factor Beta 1 (TGFB1) - Drugs in Development, 2021

### SUMMARY

Transforming Growth Factor Beta 1 (TGFB1) - Transforming growth factor beta 1 (TGF- $\beta$ 1) is a polypeptide member of the transforming growth factor beta superfamily of cytokines encoded by the TGFB1 gene. It plays an important role in bone remodeling as it is a potent stimulator of osteoblastic bone formation, causing chemotaxis, proliferation and differentiation in committed osteoblasts. It promotes either T-helper 17 cells (Th17) or regulatory T-cells (Treg) lineage differentiation in a concentration-dependent manner. It leads to FOXP3-mediated suppression of RORC and down-regulation of IL-17 expression at high concentration. It leads to expression of the IL-17 and IL-23 receptors favoring differentiation to Th17 cells at low concentration.

Transforming Growth Factor Beta 1 (TGFB1) pipeline Target constitutes close to 34 molecules. Out of which approximately 27 molecules are developed by companies and remaining by the universities/institutes. The molecules developed by companies in Phase II, Phase I, IND/CTA Filed, Preclinical and Discovery stages are 3, 8, 1, 11 and 4 respectively. Similarly, the universities portfolio in Preclinical and Discovery stages comprises 6 and 1 molecules, respectively.

Report covers products from therapy areas Oncology, Gastrointestinal, Musculoskeletal Disorders, Ophthalmology, Respiratory, Genito Urinary System And Sex Hormones, Immunology, Metabolic Disorders, Dermatology, Infectious Disease, Cardiovascular, Central Nervous System, Genetic Disorders, Hematological Disorders and Male Health which include indications Idiopathic Pulmonary Fibrosis, Liver Fibrosis, Solid Tumor,

Bile Duct Cancer (Cholangiocarcinoma), Diabetic Nephropathy, Fibrosis, Hepatocellular Carcinoma, Kidney Fibrosis, Myelofibrosis, Bladder Cancer, Breast Cancer, Corneal Dystrophy, Coronavirus Disease 2019 (COVID-19), Glioblastoma Multiforme (GBM), Non-Alcoholic Steatohepatitis (NASH), Non-Small Cell Lung Cancer, Primary Sclerosing Cholangitis, Squamous Cell Carcinoma, Systemic Sclerosis (Scleroderma), Acute Respiratory Distress Syndrome, Age Related Macular Degeneration, Anemia, Basal Cell Carcinoma (Basal Cell Epithelioma), Benign Prostatic Hyperplasia, Bone Disorders, Cholangitis, Choroidal Neovascularization, Colitis, Colorectal Cancer, Focal Segmental Glomerulosclerosis (FSGS), Glaucoma, Gynecological Cancer, Head And Neck Cancer, Hyperalgesia, Hypertrophic Scars, Inflammation, Interstitial Lung Fibrosis, Keloids, Knee Osteoarthritis, Lung Adenocarcinoma, Melanoma, Metastatic Breast Cancer, Metastatic Hepatocellular Carcinoma (HCC), Nonmelanomatous Skin Cancer, Open-Angle Glaucoma, Osteoarthritis, Osteogenesis Imperfecta, Pancreatic Cancer, Pancreatic Ductal Adenocarcinoma, Pancreatitis Pain, Post-Essential Thrombocythemia Myelofibrosis (Post-ET MF), Post-Polycythemia Vera Myelofibrosis (PPV-MF), Proliferative Vitreoretinopathy (PVR), Pulmonary Hypertension, Scar, Transitional Cell Cancer (Urothelial Cell Cancer), Triple-Negative Breast Cancer (TNBC) and Unspecified Cancer.

The latest report Transforming Growth Factor Beta 1 - Drugs in Development, 2021, outlays comprehensive information on the Transforming Growth Factor Beta 1 (TGFB1) 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 Transforming Growth Factor Beta 1 (TGFB1) 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 Transforming Growth Factor Beta 1 (TGFB1)

The report reviews Transforming Growth Factor Beta 1 (TGFB1) 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 Transforming Growth Factor Beta 1 (TGFB1) targeted therapeutics and enlists all their major and minor projects

The report assesses Transforming Growth Factor Beta 1 (TGFB1) 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 Transforming Growth Factor Beta 1 (TGFB1) 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 Transforming Growth Factor Beta 1 (TGFB1) 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 Transforming Growth Factor Beta 1 (TGFB1) 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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