

TGF-beta/Smad Compound Library

Catalog No: #L4100

Orders: order@signalwayantibody.comSupport: tech@signalwayantibody.com

Description

Product Name	TGF-beta/Smad Compound Library
Brief Description	<p>Members of the transforming growth factor-α (TGF-α) family control growth, differentiation and apoptosis of cells, and have important functions during embryonic development. There are three known isoforms of TGF-α (TGF-α1, TGF-α2 and TGF-α3) expressed in mammalian tissues. TGF-α isoforms signal through three surface receptors, known as the TGF-α type I, type II, and type III receptors (ToαRI, ToαRII, and ToαRIII, respectively) which are expressed on the surface of many cell types such as fibroblasts, lymphocytes, and hemopoietic cells, etc. The binding of TGF-α and receptor transduces the signals by phosphorylating carboxy-terminal serine residues of receptor-regulated (R-) Smads. The activated R-Smads form hetero-oligomeric complexes with a common-partner (co-) Smad, that is, Smad4 in vertebrate cells. The complexes translocate into the nucleus where they regulate the expression of target genes.</p> <p>TGF-beta/Smad Compound Library from SAB, a unique collection of 44 TGF-beta/Smad signaling targeted compounds, can be used for research in TGF-beta/Smad signaling and related drug screening (high throughput and high content screening).</p>
Storage	<p>Powder or pre-dissolved DMSO solutions in 96 well plate with optional 2D barcode Shipped with blue ice;</p> <p>Stable for One year as powder, 6 months at - 20 ° C in DMSO or 12months at -80 ° C in DMSO</p>

Application Details

Number of Compounds: 44

Product Description

A unique collection of 44 TGF-beta/Smad signaling targeted compounds for high throughput and high content screening; Bioactivity and safety confirmed by pre-clinical research and clinical trials; Detailed compound information with structure, target, activity, IC50 value, and biological activity description; Structurally diverse, medicinally active, and cell permeable; NMR and HPLC validated to ensure high purity and quality

Note: This product is for in vitro research use only