TGF-β Signaling

TGF-β Ligands: TGF-βs, Activins, Nodals

BMP Ligands: BMP-2, -4, -7, MIS

Type I Receptor

Type II Receptor

Cytosol

Nucleus

Pathway Diagram Keys

- Kinase
- Phosphatase
- Transcription Factor
- Caspase
- Receptor
- Enzyme
- pro-apoptotic
- pro-survival
- GAP/GEF
- GTPase
- G-protein
- Acetylase
- Deacetylase
- Ribosomal subunit

- Direct Stimulatory Modification
- Multistep Stimulatory Modification
- Direct Inhibitory Modification
- Multistep Inhibitory Modification
- Tentative Stimulatory Modification
- Tentative Inhibitory Modification
- Translocation
- Transcriptional Stimulatory Modification
- Transcriptional Inhibitory Modification