

## SMAD6 Protein, Human, Recombinant (His & Myc)

### General Information

Synonyms:	SMAD family member 6 (SMAD 6;Smad6;hSMAD6);Mothers against decapentaplegic homolog 6;MAD homolog 6;MADH6;Mothers against DPP homolog 6;SMAD6
Protein Construction:	1-496 aa
Species:	Human
Expression Host:	Baculovirus Insect Cells
Accession:	O43541
Molecular Weight:	57.4 kDa (predicted)
AA Sequence:	MFRSKRSGLVRRLLWRSRVVPDREEGGSGGGGGGDEDGSLGSRAEPAPRAREGGGCGRSEVRPVAPRRPRD AVGQRGAQGAGRRRRAGGPPRPMSEPGAGAGSSLLDVAEPGGPGWLPESDCETVTCCLFSERDAAGAPRD ASDPLAGAALEPAGGGRSREARSRLLELQELKTVTYSLLKRLKERSLDTLLEAVESRGGVPGGCVLVPRADLR LGGQPAPPQLLLGRFLRWPDLQHAVELKPLCGCHSFAAAAADGPTVCCNPYHFSRLCGPESPPPPYSRLSPRD EYKPLDLSSTLSYTETEATNSLITAPGEFSDASMSPDATKPSHWCSVAYWEHRTRVGRLYAVYDQAVSIFYD LPQSGFCLGQLNLEQRSESVRRTRSKIGFILLSKEPDGVWAYNRGEHPFVNSPTLDAPGGRALVVRKVPP GYSIKVDFERSGLQHAPEPDAADGPYDPNSVRISFAKGWGPCYSRQFITSCPCWLEILLNNPR

### QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 85% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

### Preparation and Storage

#### Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

#### Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

## A DRUG SCREENING EXPERT

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Transforming growth factor-beta superfamily receptors signaling occurs through the Smad family of intracellular mediators. SMAD6 is an inhibitory Smad (i-Smad) that negatively regulates signaling downstream of type I transforming growth factor-beta. Acts as a mediator of TGF-beta and BMP anti-inflammatory activities. Suppresses IL1R-TLR signaling through its direct interaction with PEL1, preventing NF-kappa-B activation, nuclear transport and NF-kappa-B-mediated expression of proinflammatory genes. Blocks the BMP-SMAD1 signaling pathway by competing with SMAD4 for receptor-activated SMAD1-binding. Binds to regulatory elements in target promoter regions.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481