

SMAD6 Protein, Human, Recombinant (E. coli, His & Myc)

General Information

Synonyms: Mothers against DPP homolog 6;MAD homolog 6;SMAD family member 6 (SMAD 6;Smad6;hSMAD6);MADH6;Mothers against decapentaplegic homolog 6;SMAD6

Protein Construction: 1-496 aa

Species: Human

Expression Host: E. coli

Accession: O43541

Molecular Weight: 60.9 kDa (predicted)

AA Sequence:
MFRSKRSLVRRLLWRSRVVPDREEGGSGGGGGDEDGSLGSRAEPAPRAREGGGCGRSEVRPVAPRRPRD
AVGQRGAQGAGRRRRRAGGPPRPMSEPGAGAGSSLLDVAEPGGPGWLPESDCETVTCCLFSERDAAGAPRD
ASDPLAGAALEPAGGGRSREARSRLLELQELKTVTYSLLKRLKERSLDTLLEAVESRGGVPGGCVLVPRADLR
LGGQPAPPQLLLGRLEFRWDLQHAVELKPLCGCHSFAAAAADGPTVCCNPYHFSRLCGPESPPPPYSRLSPRD
EYKPLDLSSTLSYTETETATNSLITAPGEFSDASMSPDATKPSHWCSVAYWEHRTRVGRLYAVYDQAVSIFYD
LPQSGFCLGQLNLEQRSESVRRTRSKIGFGILLSKEPDGVWAYNRGEHPFVNSPTLDAPGGRALVVRKVPP
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

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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