

Recombinant Human SMAD4 protein, His-tagged

Cat. No. SMAD4-217H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human SMAD4 fused with His tag at C-terminal was expressed in E. coli.
Species	Human
Source	E.coli
Description	This gene encodes a member of the Smad family of signal transduction proteins. Smad proteins are phosphorylated and activated by transmembrane serine-threonine receptor kinases in response to TGF-beta signaling. The product of this gene forms homomeric complexes and heteromeric complexes with other activated Smad proteins, which then accumulate in the nucleus and regulate the transcription of target genes. This protein binds to DNA and recognizes an 8-bp palindromic sequence (GTCTAGAC) called the Smad-binding element (SBE). The Smad proteins are subject to complex regulation by post-translational modifications. Mutations or deletions in this gene have been shown to result in pancreatic cancer, juvenile polyposis syndrome, and hereditary hemorrhagic telangiectasia syndrome.
Form	Lyophilized from a 0.2 M filtered solution of 20mM Tris, pH 8.0
Molecular Mass	61.5kD
AA Sequence	MDNMSITNTPTSNDACLSIVHSLMCHRQGGESETFAKRAIESLVKKLKEKKDELDSLII TAITTNGAHPSKCVTIQRTL DGR LQVAGRKGFPVHIYARLWRWPD LHKNELKHVKYC QYAFDLKCD SVCNPNYHYERVVSPGIDLSGLTLQSNAPSSMMVKDEYVHDFEGQPS

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LSTEGHSIQTIQHPPSNRASTETYSTPALLAPSESATSTANFPNIPVASTSQPASILG
GSHSEGLLQIASGPQPGQQQNGFTG

Endotoxin Endotoxin level is <0.1 ng/g of protein (<1EU/g).

Purity >95% as determined by SDS-PAGE and Coomassie blue staining

Concentration Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 g/ml. Dissolve the lyophilized protein in 1X PBS. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

GENE INFORMATION

Gene Name SMAD4 SMAD family member 4 [Homo sapiens]

Official Symbol SMAD4

Synonyms SMAD4; SMAD family member 4; MAD, mothers against decapentaplegic homolog 4 (Drosophila) , MADH4, SMAD, mothers against DPP homolog 4 (Drosophila); mothers against decapentaplegic homolog 4; DPC4; MAD homolog 4; SMAD, mothers against DPP homolog 4; deleted in pancreatic carcinoma locus 4; deletion target in pancreatic carcinoma 4; mothers against decapentaplegic, Drosophila, homolog of, 4; JIP; MADH4; MYHRS;

Gene ID 4089

mRNA Refseq NM_005359

Protein Refseq NP_005350

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MIM	600993
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UniProt ID	Q13485
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