

Recombinant Human SMAD1 Protein, His-tagged

Cat. No. SMAD1-1916H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human SMAD1 protein, fused to His-tagged Both N-terminal and C-terminal, was expressed in E. coli
Species	Human
Source	E.coli
Description	The protein encoded by this gene belongs to the SMAD, a family of proteins similar to the gene products of the Drosophila gene 'mothers against decapentaplegic' (Mad) and the C. elegans gene Sma. SMAD proteins are signal transducers and transcriptional modulators that mediate multiple signaling pathways. This protein mediates the signals of the bone morphogenetic proteins (BMPs), which are involved in a range of biological activities including cell growth, apoptosis, morphogenesis, development and immune responses. In response to BMP ligands, this protein can be phosphorylated and activated by the BMP receptor kinase. The phosphorylated form of this protein forms a complex with SMAD4, which is important for its function in the transcription regulation. This protein is a target for SMAD-specific E3 ubiquitin ligases, such as SMURF1 and SMURF2, and undergoes ubiquitination and proteasome-mediated degradation. Alternatively spliced transcript variants encoding the same protein have been observed. [provided by RefSeq, Jul 2008].
Form	Lyophilized from a 0.2 M filtered solution of 20 mM Tris-HCl, 150 mM NaCl, pH 8.0. Stable for at least 6 months from date of receipt under proper storage and handling conditions.

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Molecular Mass	78.7 kDa
Purity	>95% as determined by SDS-PAGE and Coomassie blue staining
Concentration	Resuspend the protein to the desired concentration in proper buffer.

GENE INFORMATION

Gene Name	SMAD1 SMAD family member 1 [Homo sapiens]
Official Symbol	SMAD1
Synonyms	BSP-1; BSP1; JV4-1; JV41; MADH1; MADR1
Gene ID	4086
mRNA Refseq	NM_001003688
Protein Refseq	NP_001003688
MIM	601595
UniProt ID	Q15797

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