

Recombinant Human SMAD Family Member 1, GST-tagged

Cat. No. SMAD1-1092H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human SMAD1 was expressed in E. coli cells using an N-terminal GST tag.
Species	Human
Source	E.coli
Description	SMAD1 is a member of the SMAD family which are signal transducers and transcriptional modulators that mediate multiple signaling pathways. The actions of bone morphogenetic proteins (BMPs) are mediated by SMAD1 and SMAD1 can be phosphorylated and activated by the BMP receptor kinase. Phosphorylated SMAD1 forms a complex with SMAD4 that is important for its function in the transcription regulation.
Applications	Kinase Assay; Western Blot
Molecular Weight	83 kDa
Expression System	E. coli
Form	Recombinant protein stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1mM PMSF, 25 % glycerol.
Purity	> 90 %

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Concentration	0.2 ug/ul
Sequences	Full-length
Storage	Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Pathways	ALK1 signaling events; ALK2 signaling events; BMP receptor signaling; Delta-Notch Signaling Pathway; ErbB1 downstream signaling; Heart Development; Id Signaling Pathway; Signaling by BMP; TGF Beta Signaling Pathway
GENE INFORMATION	
Gene Name	SMAD1 SMAD family member 1 [Homo sapiens]
Official Symbol	SMAD1
Synonyms	SMAD1; SMAD family member 1; BSP1; JV41; BSP-1; JV4-1; MADH1; MADR1; mothers against decapentaplegic homolog 1; MAD homolog 1; OTTHUMP00000220455; OTTHUMP00000220456; OTTHUMP00000221520; Mad-related protein 1; TGF-beta signaling protein 1; mothers against DPP homolog 1; SMAD, mothers against DPP homolog 1; MAD, mothers against decapentaplegic homolog 1; transforming growth factor-beta signaling protein 1; transforming growth factor-beta-signaling protein 1; MAD, mothers against decapentaplegic homolog 1 (Drosophila); Mothers against decapentaplegic homolog 1; Mad-related protein 1; Transforming growth factor-beta-signaling protein 1
Gene ID	4086
mRNA Refseq	NM_001003688

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Protein Refseq	NP_001003688
MIM	601595
UniProt ID	Q15797
Chromosome Location	4q31.21
Function	RNA polymerase II transcription factor activity; co-SMAD binding; identical protein binding; protein kinase binding; receptor signaling protein activity; transcription activator activity; transcription factor activity; transforming growth factor beta receptor
PDBrendering based on 1khu.	