

Recombinant Human SMAD3 protein, GST-tagged

Cat. No. SMAD3-295H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human SMAD3(C-terminal SXS deletion) fused with GST tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
Description	<p>SMAD3 is a direct mediator of transcriptional activation by the TGF receptor. The activity of SMAD3 is regulated by the TGF receptors, and SMAD3 is phosphorylated and associated with the ligand-bound receptor complex. TGF stimulation leads to phosphorylation and activation of SMAD3, which form a complex with SMAD4 that accumulate in the nucleus and regulate transcription of target genes such as CDK inhibitor. SMAD3 containing a C-terminal truncation acts as a dominant-negative inhibitor of the normal TGF response. SMAD3 is a major physiologic substrate of the G1 cyclin-dependent kinases CDK4 and CDK2.</p>
Form	50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Molecular Mass	84 kDa
Purity	> 85%
Applications	Western Blot

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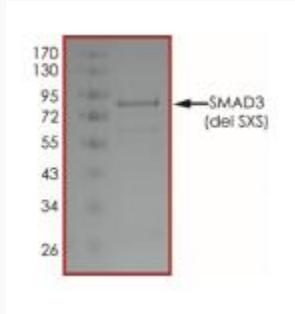
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Stability	1 year at -70 centigrade from the date of shipment.
Storage	Store product at -70 centigrade. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Concentration	0.1 µg/µl
GENE INFORMATION	
Gene Name	SMAD3 SMAD family member 3 [Homo sapiens]
Official Symbol	SMAD3
Synonyms	SMAD3; SMAD family member 3; MAD, mothers against decapentaplegic homolog 3 (Drosophila) , MADH3, SMAD, mothers against DPP homolog 3 (Drosophila); mothers against decapentaplegic homolog 3; HsT17436; JV15 2; mad3; hMAD-3; hSMAD3; MAD homolog 3; mad homolog JV15-2; mad protein homolog; mothers against DPP homolog 3; SMA- and MAD-related protein 3; SMAD, mothers against DPP homolog 3; MAD, mothers against decapentaplegic homolog 3; LDS1C; MADH3; JV15-2; HSPC193; MGC60396; DKFZp586N0721; DKFZp686J10186;
Gene ID	4088
mRNA Refseq	NM_005902
Protein Refseq	NP_005893
MIM	603109
UniProt ID	P84022

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Chromosome Location	15q21-q22
Pathway	Adherens junction, organism-specific biosystem; Adherens junction, conserved biosystem; Adipogenesis, organism-specific biosystem; Alpha6-Beta4 Integrin Signaling Pathway, organism-specific biosystem; Androgen Receptor Signaling Pathway, organism-specific biosystem; Cell cycle, organism-specific biosystem; Cell cycle, organism-specific biosystem;
Function	R-SMAD binding; RNA polymerase II activating transcription factor binding; beta-catenin binding; chromatin DNA binding; co-SMAD binding; collagen binding; core promoter proximal region sequence-specific DNA binding; double-stranded DNA binding; metal ion binding; phosphatase binding; protein binding; contributes_to protein binding transcription factor activity; protein homodimerization activity
	

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