

## Recombinant Human SMAD Family Member 3, GST-tagged

Cat. No. SMAD3-1094H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant full-length human SMAD3 was expressed in E. coli cells using an N-terminal GST tag.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	SMAD3 is a direct mediator of transcriptional activation by the TGF $\beta$ receptor. The activity of SMAD3 is regulated by the TGF $\beta$ receptors, and SMAD3 is phosphorylated and associated with the ligand-bound receptor complex. TGF $\beta$ 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.
<b>Applications</b>	Kinase Assay; Western Blot
<b>Molecular Weight</b>	77 kDa
<b>Expression System</b>	E. coli
<b>Form</b>	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.
<b>Purity</b>	> 90 %

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

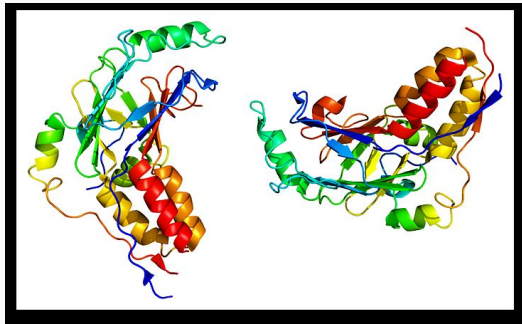
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<b>Concentration</b>	0.2 ug/ul
<b>Sequences</b>	Full-length
<b>Storage</b>	Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
<b>Pathways</b>	Adipogenesis; Adherens junction; Alpha6-Beta4 Integrin Signaling Pathway; Cell cycle; Chagas disease (American trypanosomiasis); Colorectal cancer; EGFR1 Signaling Pathway; Endocytosis; HTLV-I infection; Pancreatic cancer; Pathways in cancer; Regulation of cytoplasmic and nuclear SMAD2/3 signaling; Regulation of nuclear SMAD2/3 signaling; Signaling by TGF beta; TGF Beta Signaling Pathway; Wnt signaling pathway
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	SMAD3 SMAD family member 3 [ Homo sapiens ]
<b>Official Symbol</b>	SMAD3
<b>Synonyms</b>	SMAD3; SMAD family member 3; LDS1C; MADH3; JV15-2; HSPC193; HsT17436; MGC60396; DKFZp586N0721; DKFZp686J10186; mothers against decapentaplegic homolog 3; mad3; hMAD-3; hSMAD3; MAD homolog 3; OTTHUMP00000164305; 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; MAD, mothers against decapentaplegic homolog 3 (Drosophila); SMAD, mothers against DPP homolog 3 (Drosophila); Mothers against decapentaplegic homolog 3; Mothers against DPP homolog 3; Smad3
<b>Gene ID</b>	4088

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<b>mRNA Refseq</b>	NM_001145102
<b>Protein Refseq</b>	NP_001138574
<b>MIM</b>	603109
<b>UniProt ID</b>	P84022
<b>Chromosome Location</b>	15q21-q22
<b>Function</b>	R-SMAD binding; co-SMAD binding; double-stranded DNA binding; protein binding; transcription factor binding; transforming growth factor beta receptor; ubiquitin protein ligase binding; contributes to DNA binding; phosphatase binding; sequence-specific DNA binding transcription factor activity; RNA polymerase II activating transcription factor binding; beta-catenin binding; core promoter proximal region sequence-specific DNA binding; transcription regulatory region DNA binding; ligand-regulated transcription factor activity
<b>PDBrendering based on 1dev.</b>	

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