

Recombinant Human SMAD2 protein, T7/His-tagged

Cat. No. SMAD2-118H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human SMAD2 fused with T7/His/TEV cleavage site 29aa Tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
Form	0.2 mg/ml, sterile-filtered, in 20 mM pH 8.0 Tris-HCl Buffer, with proprietary formulation of NaCl, KCl, EDTA, arginine, DTT and Glycerol.
AA Sequence	MASMTGGQQMGRGHHHHHGNLYFQGGEFSSILPFTPPVVKRLLGWKKSAGGSG GAGGGEQNGQEEKWCEKAVKS LVKKLKTGRLELEKAITTQNCNTKCVTIPSTCS EIWGLSTPNTIDQWDTTGLYSFSEQTRSLDGRLQVSHRKG LPHVIYCRLWRWPD LH SHHELKAIENCEYAFNLKKDEVCPNYPHYQRVETPVLPPVLVPRHTEILTELPLDDY T HSIPENTNFPAGIEPQSNYIPETPPPGYISEDGETSDQQLNQSMDTGSPAELSPTT LSPVNHSLDLQPVTYSEPA FWCSIAYYELNQRVGETFHASQPSTVDGFTDPSNSE RFCLGLLSNVNRNATVEMTRRHIGRGVRLYYIGGEVFA ECLSDSAIFVQSPNCNQ R YGWHPATVCKIPPGCNLKIFNNQEFAALLAQSVNQGF EAVYQLTRMCTIRMSFVK G W GAEYRRQTVTSTPCWIELHLNGPLQWLDKVL TQMGSPSVRCSSMS
Purity	>90% by SDS-PAGE
Applications	1. May be used for human SMAD2 functional regulation study in vitro, 2. May be used as specific substrate protein for kinase and ubiquitin enzymes. 3. May be used for specific antibody production.

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Storage Keep at -20°C for long term storage. Product is stable at 4 °C for at least 30 days.

GENE INFORMATION

Gene Name SMAD2 SMAD family member 2 [Homo sapiens]

Official Symbol SMAD2

Synonyms SMAD2; SMAD family member 2; MAD, mothers against decapentaplegic homolog 2 (Drosophila) , MADH2, SMAD, mothers against DPP homolog 2 (Drosophila)

Gene ID 4087

mRNA Refseq NM_001003652

Protein Refseq NP_001003652

MIM 601366

UniProt ID Q15796

Chromosome Location 18q21

Pathway Adherens junction, organism-specific biosystem; Adherens junction, conserved biosystem; Alpha6-Beta4 Integrin Signaling Pathway, organism-specific biosystem; Cell cycle, organism-specific biosystem; Cell cycle, conserved biosystem; Chagas disease (American trypanosomiasis), organism-specific biosystem; Chagas disease (American trypanosomiasis), conserved biosystem;

Function contributes_to DNA binding; I-SMAD binding; R-SMAD binding; SMAD binding;

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activating transcription factor binding; chromatin binding; co-SMAD binding; double-stranded DNA binding; phosphatase binding; protein binding; sequence-specific DNA binding transcription factor activity; contributes_to sequence-specific DNA binding transcription factor activity; transcription factor binding; transforming growth factor beta receptor binding; transforming growth factor beta receptor, pathway-specific cytoplasmic mediator activity; type I transforming growth factor beta receptor binding; ubiquitin protein ligase binding;

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