

SMAD Family Member 2 Recombinant Protein | SMAD2 recombinant protein

Recombinant Human SMAD Family Member 2

CATALOG #
AAA38663

HOST
E Coli

PRODUCT SYNONYMS

SMAD Family Member 2; Recombinant Human SMAD Family Member 2; SMAD2 Human; SMAD Family Member 2 Human Recombinant; JV18; MADH2; MADR2; JV18-1; hMAD-2; hSMAD2; MGC22139; MGC34440; SMAD2; Mothers against decapentaplegic homolog 2; Mothers against DPP homolog 2; Mad-related protein 2; SMAD 2; SMAD family member 2; SMAD2 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 95.0% as determined by SDS-PAGE.
Form/Format	The SMAD2 protein solution contains 20mM Tris-HCl pH-8, and 100mM NaCl. Sterile Filtered colorless solution.
Sequence	MGSSHHH HHHSSGLVPR GSHMSS ILPFTPPVVK RLLGWKKSAG GSGGAGGGEQ NGQEEKWCEK AVKSLVKKLK KTGRLELEK AITTQNCNTK CVTIPSTCSE IWGLSTPNTI DQWDTTGLYS FSEQTRSLDG RLQVSHRKGL PHVIYCRLWR WPDLHSHHEL KAIENCEYAF NLKKDEVCVN PYHYQRVETP VLPPVLVPRH TEILTELPL DDYTHSIPEN TNFPAGIEPQ SNYIPETPPP GYISEDGETS DQQLNQSMDT GSPAELSPTT LSPVNHSLDL QPVTYSEPAF WCSIAYYELN QRVGETFHAS QPSLTVDGFT DPSNSERFCL GLLSNVNRNA TVEMTRRHIG RGVRLYYIGG EVFAECLSDS AIFVQSPNCN QRYGWHPATV CKIPPGCNLK IFNNQEFAAL LAQSVNQGE AVYQLTRMCT IRMSFVKGWG AEYRRQTVTS TPCWIELHLN GPLQWLDKVL TQMGSPSVRC SSMS
Sequence Length	467

ADDITIONAL INFORMATION

Related Product Information for SMAD2 recombinant protein	Description: SMAD2 Human Recombinant produced in E Coli is a single, non-glycosylated polypeptide chain containing 487 amino acids (1-467) and having a molecular mass of 54.4 kDa. SMAD2 is fused to 20 amino acid His-Tag at N-Terminus and purified by standard chromatography techniques. Introduction: SMAD2 is part of the SMAD family of proteins that mediate signal transduction by the TGF-beta/activin/BMP-2/4 cytokine superfamily from receptor Ser/Thr protein kinases at the cell surface to the nucleus. Phosphorylated SMAD2 is then able to form a complex with SMAD4 or SARA. These complexes accumulate in the cell nucleus, where they are directly participating in the regulation of gene expression. SMAD2 mediates the signal of the TGF-beta, and therefore regulates multiple cellular processes, such as cell proliferation, apoptosis, and differentiation. SMAD2 is recruited to the TGF-beta receptors through its interaction with the SMAD anchor for receptor activation (SARA) protein. TGF-beta 1 acts on adjacent stromal cells to turn on SMAD2 signalling that could lead to stromal decidualization. SMAD2 is the downstream signal transducers of TGF-beta-1 in human dental pulp cells.
Product Categories/Family for SMAD2 recombinant protein	Recombinant & Natural Proteins; Recombinant Proteins; SMAD

NCBI AND UNIPROT INFORMATION

NCBI GI #	51173730
NCBI GeneID	4087
NCBI Accession #	NP_001003652.1

NCBI GenBank Nucleotide #	NM_001003652.3
UniProt Accession #	Q15796
Molecular Weight	48,956 Da
NCBI Official Full Name	mothers against decapentaplegic homolog 2 isoform 1
NCBI Official Synonym Full Names	SMAD family member 2
NCBI Official Symbol	SMAD2
NCBI Official Synonym Symbols	JV18; MADH2; MADR2; JV18-1; hMAD-2; hSMAD2
NCBI Protein Information	mothers against decapentaplegic homolog 2; MAD homolog 2; SMAD, mothers against DPP homolog 2; Sma- and Mad-related protein 2; mother against DPP homolog 2
UniProt Protein Name	Mothers against decapentaplegic homolog 2
UniProt Gene Name	SMAD2
UniProt Synonym Gene Names	MADH2; MADR2; MAD homolog 2; Mothers against DPP homolog 2; hMAD-2; SMAD 2; Smad2; hSMAD2
UniProt Entry Name	SMAD2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/smad2-recombinant-protein-e-coli/38663>