

Recombinant Full length Human SMAD4 Protein, His tagged

Cat. No. SMAD4-03HFL Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Full length Human SMAD4 Protein with His tag was expressed in HEK293.
Species	Human
Source	HEK293
Conjugation/Label	1-552 aa
Description	This gene encodes a member of the Smad family of signal transduction proteins. Smad proteins are phosphorylated and activated by transmembrane serine-threonine receptor kinases in response to transforming growth factor (TGF)-beta signaling. The product of this gene forms homomeric complexes and heteromeric complexes with other activated Smad proteins, which then accumulate in the nucleus and regulate the transcription of target genes. This protein binds to DNA and recognizes an 8-bp palindromic sequence (GTCTAGAC) called the Smad-binding element (SBE). The protein acts as a tumor suppressor and inhibits epithelial cell proliferation. It may also have an inhibitory effect on tumors by reducing angiogenesis and increasing blood vessel hyperpermeability. The encoded protein is a crucial component of the bone morphogenetic protein signaling pathway. The Smad proteins are subject to complex regulation by post-translational modifications. Mutations or deletions in this gene have been shown to result in pancreatic cancer, juvenile polyposis syndrome, and hereditary hemorrhagic telangiectasia syndrome.

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AASequence

MDNMSITNTPTSNDACLSIVHSLMCHRQGGSETFAKRAIESLVKKLKEKKDELDSLI
 TAITTNGAHPKCVTIQRTLDGRLQVAGRKGFPVHVIYARLWRWPDHLKNEKHKVYK
 QYAFDLKCDSVCVNPYHYERVVSPGIDLSGLTLQSNAPSSMMVKDEYVHDFEGQPS
 LSTEGHSIQTIQHPPSNRASTETYSTPALLAPSESATSTANFPNIPVASTSQPASILG
 GSHSEGLLQIASGPQPGQQQNGFTGQPATYHHNSTTTWTGSRTAPYTPNLPHHQN
 GHLQHHPMPHPGPHYWPVHNELAFQPPISNHPAPEYWCSIAFYFEMDVQVGETFK
 VPSSCPIVTVDG YVDPSSGGDRFCLGQLSNVHRTEAIERARLHIGKGVQLECKGED
 VWVRCLSDHAVFVQSYLDREAGRPGDAVHKIYPSAYIKVFDLRQCHRQMQQQA
 ATAQAAAAAQA AAVAGNIPGPGSVGGIAPAI SLAAAGIGVDDLRLRLCILRMSFVKG
 WGPDYPRQSIKETPCWIEIHLHRALQLLDEV LHTMPIADPQPLDDDDDKHHHHHHH
 H

Molecular Mass

62 kDa

Endotoxin

< 1 EU/μg by LAL.

Purity

>30% by SDS-PAGE

Storage

Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Storage Buffer

Sterile PBS, pH7.4

Concentration

0.22 mg/mL by BCA

GENE INFORMATION
Gene Name

SMAD4 SMAD family member 4 [Homo sapiens (human)]

Official Symbol

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Synonyms	SMAD4; SMAD family member 4; JIP; DPC4; MADH4; MYHRS; mothers against decapentaplegic homolog 4; MAD homolog 4; SMAD, mothers against DPP homolog 4; deleted in pancreatic carcinoma locus 4; deletion target in pancreatic carcinoma 4; mothers against decapentaplegic, Drosophila, homolog of, 4
Gene ID	4089
mRNA Refseq	NM_005359
Protein Refseq	NP_005350
MIM	600993
UniProt ID	Q13485

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