

Recombinant Human Mothers Against Decapentaplegic Homolog 4 His

Catalog No.	CS300A CS300B CS300C	Quantity:	10 µg 50 µg 1 mg
Alternate Names:	JIP, DPC4, MADH4, SMAD-4, DPC-4, MADH-4, Mothers against decapentaplegic homolog 4, Mothers against DPP homolog 4, SMAD 4, hSMAD4, Deletion target in pancreatic carcinoma 4, SMAD4, SMAD family member 4.		
Description:	<p>SMAD4 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. SMAD4 promotes the binding of the SMAD2/SMAD4/FAST-1 complex to DNA and provides the function of activation required for SMAD1 or SMAD2 to stimulate transcription acts as a tumor suppressor. SMAD4 is a target molecule for functional inactivation in cervical cancer. SMAD4 is an important biomarker for malignant transformation atakes part in inducing apoptosis by modulating Bcl-2/Bax balance.</p> <p>SMAD4 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 572 amino acids (1-552) and having a molecular mass of 62.6 kDa. SMAD4 is fused to a 20 amino acid His-Tag at N-Terminus and purified by standard chromatography techniques.</p>		
Physical Appearance:	Sterile Filtered colorless solution.		
Source:	<i>E. coli</i>		
Formulation:	The SMAD4 protein solution contains 20 mM Tris-HCl, pH-8 +20% glycerol.		
Purity:	Greater than 90.0% as determined by SDS-PAGE.		
Amino Acid Sequence:	<p>MGSSHHHHH SSGLVPRGSH MDNMSITNTP TSNDACLSIV HSLMCHRQGG ESETFAKRAI ESLVKKLKEK KDELDLITTA ITTNGAHP SK CVTIQR TL DG RLQVAGRKGF PHVIYARLWR WPD LHKNELK HVKYCQYAFD LKCD SV CV NP YHYERVVSPG IDLSGLTLQS NAPSSMMVKD EYVHDFEGQP SLSTEGHSIQ TIQHPPSNRA STETYSTPAL LAPSESNATS TANFPNIPVA STSQPASILG GSHSEGLLQI ASGPQPGQQQ NGFTGQPATY HHNSTTTWTG SRTAPYTPNL PHHQNGHLQH HPPMPPHPGH YWPVHNELAF QPPISNHPAP EYWCSIAYFE MDVQVGETFK VPSSCPIVTV DGYVDPSSGGD RFCLGQLSNV HRTEAIERAR LHIGKGVQLE CKGEGDVWVR CLSDHAVFVQ SYILDREAGR APGDAVHKIY PSAYIKVFDL RQCHRQMQQQ AATAQAAAAA QAAAVAGNIP GPGSVGGIAP AISLSAAAGI GVDDLRLRCI LRMSFVKGWG PDYPRQSIKE TPCWIEIHLH RALQLLDEV L HTMPIADPQP LD</p>		
Storage & Stability:	<p>Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time.</p> <p>For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).</p> <p>Please note that the addition of any carrier protein into this product may produce unwanted endotoxin. This depends upon the particular application employed.</p> <p>Avoid multiple freeze-thaw cycles.</p>		

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