9051 Mira Mesa Blvd, #910094
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SMAD4 Human

Mothers Against Decapentaplegic Homolog 4 Human Recombinant
RCP2131

Product Overview

Name	SMAD4 Human

Description

Mothers Against Decapentaplegic Homolog 4 Human Recombinant

Accession (Primary)	Q13485

Synonyms

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.

Introduction

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.

Source

Escherichia Coli.

Physical Appearance

Sterile Filtered colorless solution.

Formulation

The SMAD4 protein solution contains 20mM Tris-HCl pH-8, and 20% glycerol.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Purity

Greater than 90.0% as determined by SDS-PAGE.

Amino acid sequence

MGSSHHHHHH SSGLVPRGSH MDNMSITNTP TSNDACLSIV HSLMCHRQGG ESETFAKRAI ESLVKKLKEK KDELDSLITA ITTNGAHPSK CVTIQRTLDG RLQVAGRKGF PHVIYARLWR WPDLHKNELK HVKYCQYAFD

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LKCDSVCVNP YHYERVVSPG IDLSGLTLQS NAPSSMMVKD EYVHDFEGQP SLSTEGHSIQ TIQHPPSNRA STETYSTPAL LAPSESNATS TANFPNIPVA STSQPASILG GSHSEGLLQI ASGPQPGQQQ NGFTGQPATY HHNSTTTWTG SRTAPYTPNL PHHQNGHLQH HPPMPPHPGH YWPVHNELAF QPPISNHPAP EYWCSIAYFE MDVQVGETFK VPSSCPIVTV DGYVDPSGGD RFCLGQLSNV HRTEAIERAR LHIGKGVQLE CKGEGDVWVR CLSDHAVFVQ SYYLDREAGR APGDAVHKIY PSAYIKVFDL RQCHRQMQQQ AATAQAAAAA QAAAVAGNIP GPGSVGGIAP AISLSAAAGI GVDDLRRLCI LRMSFVKGWG PDYPRQSIKE TPCWIEIHLH RALQLLDEVL HTMPIADPQP LD.

References

Title :Transforming Growth Factor β-Induced Reactivation of Epstein-Barr Virus Involves Multiple Smad-Binding Elements Cooperatively Activating Expression of the Latent-Lytic Switch BZLF1 Gene . Publication :Published ahead of print 18 May 2011, doi: 10.1128/JVI.01197-10 J. Virol. August 2011 vol. 85 no. 15 7836-7848 Link : SMAD4 prospec publication

Precautions

SMAD4 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q13485)