

# Recombinant human Smad4 protein

Catalog Number: SMD0901

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-552aa

### UniProt No.

Q13485

### NCBI Accession No.

NP\_005350

### Alternative Names

Mothers against decapentaplegic homolog 4, Mothers against decapentaplegic homolog 4, SMAD family member 4, DPC4, JIP, MADH4, SMAD4, Mothers against decapentaplegic homolog 4 (Small) Mothers Against Decapentaplegic, Deleted in Pancreatic Carcinoma, Deleted in pancreatic carcinoma locus 4, Deletion target in pancreatic carcinoma 4, DPC 4, MAD mothers against decapentaplegic Drosophila homolog 4, hSMAD4, MAD homolog 4, MAD mothers against decapentaplegic homolog 4, MADH 4, Med, Medea, Mothers against DPP homolog 4, OTTHuMP00000163548, Smad 4, SMAD mothers against DPP homolog 4.

## PRODUCT SPECIFICATION

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### Molecular Weight

62.6 kDa (572aa)

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol

### Purity

> 90% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

SMAD4 belongs to the SMAD family of proteins that mediate signal transduction by the TGF-beta/activin/BMP-2/4

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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 and may also act as a tumor suppressor. Recombinant SMAD4 protein was expressed in *E. coli* and purified by using conventional chromatography techniques.

## Amino acid Sequence

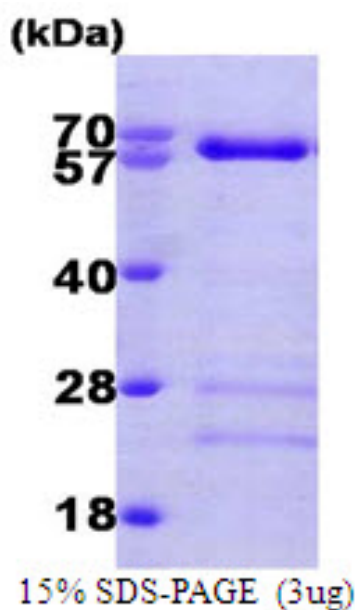
MGSSHHHHHHH SSGLVPRGSH MDNMSITNTP TSNDACLSIV HSLMCHRQGG ESETFAKRAI ESLVKKLKEK KDELDSLITA  
ITTNGAHPSK CVTIQRTLDTG RLQVAGRKGF PHVIYARLWR WPDHLKNEKLV HVKVCQYAFD LKCDVVCVNP YHYERVVSPG  
IDLSGLTLQS NAPSSMMVKD EYVHDFEGQP SLSTEGHSIQ TIQHPPSNRA STETYSTPAL LAPSESNTATS TANFPNIPVA  
STSQPASILG GSHSEGLLQI ASGPQPGQQQ NGFTGQPATY HHNSTTTWTG SRTAPYTPNL PHHQNGHLQH HPPMPPHPGH  
YWPVHNELAF QPPISNHPAP EYWCSIAIFE MDVQVGETFK VPSSCPIVTV DGYVDPSGGD RFCLGQLSNV HRTEAIERAR  
LHIGKGVQLE CKGEGDVWVR CLSDHAVFVQ SYILDREAGR APGDAVHKIY PSAYIKVFDL RQCHRQMQQQ AATAQAAAAA  
QAAAVAGNIP GPGSVGGIAP AISLSAAAGI GVDDLRLRCI LRMSFVKGWG PDYPRQSIKE TPCWIEIHLH RALQLLDEVL  
HTMPIADPQP LD

## General References

Shi Y., et al. (1997) *Nature*. 388(6637):87-93.  
de Caestecker MP, et al. (1997) *J Biol Chem*. 272(21):13690-6.

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.