

Product datasheet for AR09143PU-S

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Product data:

Product Type: Recombinant Proteins

SMAD4 (1-552, His-tag) Human Protein

Description: SMAD4 (1-552, His-tag) human recombinant protein, 0.1 mg

Species: Human
Expression Host: E. coli

Expression cDNA Clone

or AA Sequence:

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

WPDLHKNELK HVKYCQYAFD 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

Tag: His-tag

Predicted MW: 62.6 kDa

Concentration: lot specific

Purity: >90% by SDS - PAGE

Buffer: Presentation State: Purified

State: Liquid purified protein

Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 20% glycerol

Preparation: Liquid purified protein

Protein Description: Recombinant SMAD4 protein, fused to His-tag, was expressed in E.coli and purified by using

conventional chromatography techniques.

Storage: Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer.

Avoid repeated freezing and thawing.

Stability: Shelf life: one year from despatch.

RefSeq: <u>NP 005350</u>

Locus ID: 4089



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UniProt ID: Q13485

Cytogenetics: 18q21.2

Synonyms: SMAD family member 4, SMAD-4, SMAD 4, MADH4, MAD homolog 4, DPC4

Summary: 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. [provided by RefSeq, Aug 2017]

Protein Families: Druggable Genome, Transcription Factors

Protein Pathways: Adherens junction, Cell cycle, Chronic myeloid leukemia, Colorectal cancer, Pancreatic cancer,

Pathways in cancer, TGF-beta signaling pathway, Wnt signaling pathway

Product images:

