

AR09304PU-L**Human SMAD3 (1-425, His-tag) - Purified****Alternate names:**

JV15-2, MAD homolog 3, MAD-3, MADH3, Mad3, Mothers against DPP homolog 3, Mothers against decapentaplegic homolog 3, SMAD 3, SMAD family member 3, SMAD-3

Quantity:

0.5 mg

Concentration:

1.0 mg/ml (determined by Bradford assay)

Background:

SMAD3, also known as mothers against decapentaplegic homolog 3, belongs to 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. Small molecule inhibitors of Smad3 may have tremendous clinical potential in the treatment of pathological fibrotic diseases.

Uniprot ID:

[P84022](#)

NCBI:

[NP_005893](#)

GeneID:

[4088](#)

Species:

Human

Source:

E. coli

Format:

State: Liquid purified protein

Purity: >90% by SDS - PAGE

Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 0.1M NaCl and 1 mM DTT

Description:

Recombinant SMAD3 protein, fused to His-tag, was expressed in E.coli and purified by using conventional chromatography techniques.

AA Sequence:

MGSSHHHHHH SSGLVPRGSH MSSILPFTTP IVKRLLGWKK GEQNGQEEKW CEKAVKSLVK
KLKKTGQLDE LEKAITTONV NTKCITIPRS LDGRLQVSHR KGLPHVIYCR LWRWPDHSH
HELRAMELCE FAFNMKKDEV CVNPHYHYQRV ETPVLPPVLV PRHTEIPAEF PPLDDYSHSI
PENTNFPAGI EPQSNIPETP PPGYLSEGE TSDHQMNHSM DAGSPNLSPN PMSPAHNLD
LQPVTYCEPA FWCSISYYEL NQRVGETFHA SQPSMTVDGF TDPSNSERFC LGLLSNVNRN
AAVELTRRHI GRGVRLYYIG GEVFAECLSD SAIFVQSPNC NQRYGWHPAT VCKIPPGCNL
KIFNNQEFEEA LLAQSVNQGF EAVYQLTRMC TIRMSFVKGW GAEYRRQTVT STPCWIELHL
NGPLQWLDKV LTQMGSPSIR CSSVS

Molecular weight: 50.2 kDa (445 aa)

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.

Shelf life: one year from despatch.

Pictures:

Recombinant human SMAD3 (1-425 aa),
His-tagged: 15% SDS-PAGE (3 µg)

