

Recombinant human Smad3 protein

Catalog Number: ATGP0421

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-425aa

UniProt No.

P84022

NCBI Accession No.

NP_005893

Alternative Names

Mothers against decapentaplegic homolog 3, HSPC193, HsT17436, JV15-2, MADH3, Mothers against decapentaplegic homolog 3 DKFZP586N0721, DKFZp686J10186, hMAD 3, hSMAD3, MAD (mothers against decapentaplegic Drosophila) homolog 3, HST17436, JV15 2, JV152, MAD3, MADH 3, MGC60396, Mothers against DPP homolog 3, SMA and MAD related protein 3, SMAD, SMAD 3, SMAD3,

PRODUCT SPECIFICATION

Molecular Weight

50.2 kDa (445aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 0.1M NaCl and 1mM DTT

Purity

> 90% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

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

Description

SMAD3, also known as mothers against decapentaplegic homolog 3, belongs to the SMAD family of proteins that

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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. Recombinant SMAD3 protein was expressed in *E. coli* and purified by using conventional chromatography techniques.

Amino acid Sequence

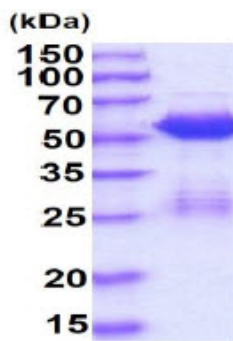
<MGSSHHHHHH SSGLVPRGSH> MSSILPFTTP IVKRLLGWKK GEQNGQEEKW CEKAVKSLVK KLKKTGQLDE
LEKAITTQNV NTKCITIPRS LDGRLQVSHR KGLPHVIYCR LWRWPDLSH HELRAMELCE FAFNMKKDEV CVNPYHYQRV
ETPVLPPVLV PRHTEIPAEF PPLDDYSHSI PENTNFPAGI EPQSNIPETP PPGYLSEGE TSDHQMNHSM DAGSPNLSPN
PMSPAHHNLD LQPVTYCEPA FWCSISYYEL NQRVGETFHA SQPSMTVDGF TDPSNSERFC LGLLSNVNRN AAVELTRRHI
GRGVRLYYIG GEVFAECLSD SAIFVQSPNC NQRYGWHPAT VCKIPPGCNL KIFNNQEFEE LLAQSVNQGF EAVYQLTRMC
TIRMSFVKGW GAERYRQTVT STPCWIELHL NGPLQWLDKV LTQMGSPSIR CSSVS

General References

Zhang Y., et al. (1996) *Nature*. 383(6596):168-72.
Wang H., et al. (2005) *J Biol Chem*. 280(7):5154-62.

DATA

SDS-PAGE



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

15% SDS-PAGE (3ug)