# NKMAXBIO We support you, we believe in your research

## 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



# NKMAXBio We support you, we believe in your research

## Recombinant human Smad3 protein

Catalog Number: ATGP0421

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 moleucule 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**

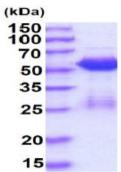
<MGSSHHHHHH SSGLVPRGSH> MSSILPFTPP IVKRLLGWKK GEQNGQEEKW CEKAVKSLVK KLKKTGQLDE LEKAITTQNV NTKCITIPRS LDGRLQVSHR KGLPHVIYCR LWRWPDLHSH HELRAMELCE FAFNMKKDEV CVNPYHYQRV ETPVLPPVLV PRHTEIPAEF PPLDDYSHSI PENTNFPAGI EPQSNIPETP PPGYLSEDGE TSDHQMNHSM DAGSPNLSPN PMSPAHNNLD LQPVTYCEPA FWCSISYYEL NQRVGETFHA SQPSMTVDGF TDPSNSERFC LGLLSNVNRN AAVELTRHI GRGVRLYYIG GEVFAECLSD SAIFVQSPNC NQRYGWHPAT VCKIPPGCNL KIFNNQEFAA LLAQSVNQGF EAVYQLTRMC TIRMSFVKGW GAEYRRQTVT 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**



15% SDS-PAGE (3ug)

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

