

SMAD3 Human

Description: SMAD3 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 445 amino acids (1-425) and having a molecular mass of 50.2 kDa. SMAD3 is fused to a 20 amino acid His-Tag at N-Terminus and purified by standard chromatography techniques.

Catalog #: PRPS-758

For research use only.

Synonyms: MADH3, JV15-2, HSPC193, HsT17436, MGC60396, DKFZp586N0721, DKFZp686J10186, SMAD3, Mothers against decapentaplegic homolog 3, Mothers against DPP homolog 3, MAD homolog 3, Mad3, hMAD-3, SMAD family member 3, SMAD 3, hSMAD3.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered colorless solution.

Amino Acid Sequence: MGSSHHHHHH SSGLVPRGSH MSSILPFTPP IVKRLLGWKK
GEQNGQEEKW CEKAVKSLVK KLKKTGQLDE LEKAITQNV NTKCITIPRS LDGRLQVSHR
KGLPHVIYCR LWRWPDLSH HELRAMELCE FAFNMKKDEV CVNPYHYQRV ETPVLPVPLV
PRHTEIPAEF PPLDDYSHSI PENTNFPAGI EPQSNIPETP PPGYLSEDGE TSDHQMNHSM
DAGSPNLSPN PM

Purity: Greater than 90.0% as determined by SDS-PAGE.

Formulation:

The SMAD3 protein solution contains 20mM Tris-HCl pH-8, 0.1M NaCl, 0.1mM DTT and 20% glycerol.

Stability:

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:

SMAD3 is part of 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. SMAD3 has a role as a transcriptional modulator activated by TGF-Beta and is involved in the regulation of carcinogenesis. SMAD3 mutations are related with the pathogenesis of human osteoarthritis. SMAD3 expression take part in tumor suppression in the premature stages of gastric carcinogenesis. SMAD3 is involved in nuclear translocation of beta-catenin.

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