

**SMAD3, 1-425 aa, Human, His-tag, E.coli**

**Cat.NO.: TP03966**

3th Edition

**Synonyms:**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

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

**Form:**Liquid. In 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol, 0.1M NaCl and 1 mM DTT

**Molecular Weight:**50.2 kDa (445aa), confirmed by MALDI-TOF.

**Sequences:**

MGSSHHHHHSSGLVPRGSHMSSILPFTPPIVKRLGKWKKEQNGQEEKWCEKAVKSLVKLKKKTGQLDELEKAI  
TTQNVNTKCITIPRSLDGRLQVSHRKGLPHVIYCRLWRWPDLSHHELRAMELCEFAFNMKKDEVCVNPHYHYQRV  
ETPVLPVLPVPRHTEIPAEPPLDDYSHSIPENTNFPAGIEPQSNIPETPPPGYLSEGETSDHQMNHSM DAGSPNL  
SPNPMSPAHHNLDLQPVTYCEPAFWCSISYYELNQRVGETFHASQPSMTVDGFTDPSNSERFCLGLLSNVNRNAA  
VELTRRHIGRGVRLYYIGGEVFAECLSDSAIFVQSPNCNQRYGWHPATVCKIPPGCNLKFNNQEFAALLAQSVNQG  
FEAVYQLTRMCTIRMSFVKGWGAEYRRQTVTSTPCWIELHLNGPLQWLDKVLTMGSPSIRCSSVS

**Purity:**> 95% by HPLC

**Concentration:**0.5 mg/ml (determined by Bradford assay)

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:**Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.