

## Product datasheet for TP506770

### Smad3 (NM\_016769) Mouse Recombinant Protein

#### Product data:

|                                       |   |
|---------------------------------------|---|
| Product Type:                         | Recombinant Proteins  |
| Description:                          | Purified recombinant protein of Mouse SMAD family member 3 (Smad3), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug |
| Species:                              | Mouse   |
| Expression Host:                      | HEK293T   |
| Expression cDNA Clone or AA Sequence: | >MR206770 protein sequence<br>Red=Cloning site Green=Tags(s)  |

MSSILPFTPIVKRLLGWKKGEQNGQEEKWCEKAVKSLVKKLKKTGQLDELEKAITTQNVNTKCITIPRS  
LDGRLQVSHRKGLPHVIYCRWLWRWPDLHSHHELAMELCEFAFNMKKDEVCVNPYHYQRVETPVLPPVLV  
PRHTEIPAEFPPLDDYSHSIPENTNFPAGIEPQSNIPETPPPGYLSEGETSDHQMNHSM DAGSPNLSPN  
PMSPAHNNLDLQPVTYCEPAFWCSISYELNQRVGETFHASQPSMTVDGFTDPSNSERFCLGLLSNVNRN  
AAVELTRRHIGRGLVRLYYIGGEVFAECLSDSAIFVQSPNCNQRYGWHPATVCKIPPGCNLKFNNQEFAA  
LLAQSVNQGF EAVYQLTRMCTIRMSFVKGWGAEYRRQTVTSTPCWIELHLNGLPLQWLDKVLTKMGSPSIR  
CSSVS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

|                |  |
|----------------|--|
| Tag:           | C-MYC/DDK  |
| Predicted MW:  | 48.1 kDa   |
| Concentration: | >0.05 µg/µL as determined by microplate BCA method   |
| Purity:        | > 80% as determined by SDS-PAGE and Coomassie blue staining  |
| Buffer:        | 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol   |
| Note:          | For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process. |
| Storage:       | Store at -80°C after receiving vials.  |
| Stability:     | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.        |
| RefSeq:        | <u><a href="#">NP_058049</a></u>   |
| Locus ID:      | 17127  |



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UniProt ID: [Q8BUN5](#)

RefSeq Size: 5090

Cytogenetics: 9 C

RefSeq ORF: 1278

Synonyms: AU022421; Madh3

**Summary:** Receptor-regulated SMAD (R-SMAD) that is an intracellular signal transducer and transcriptional modulator activated by TGF-beta (transforming growth factor) and activin type 1 receptor kinases. Binds the TRE element in the promoter region of many genes that are regulated by TGF-beta and, on formation of the SMAD3/SMAD4 complex, activates transcription. Also can form a SMAD3/SMAD4/JUN/FOS complex at the AP-1/SMAD site to regulate TGF-beta-mediated transcription. Has an inhibitory effect on wound healing probably by modulating both growth and migration of primary keratinocytes and by altering the TGF-mediated chemotaxis of monocytes. This effect on wound healing appears to be hormone-sensitive. Regulator of chondrogenesis and osteogenesis and inhibits early healing of bone fractures. Positively regulates PDPK1 kinase activity by stimulating its dissociation from the 14-3-3 protein YWHAQ which acts as a negative regulator (By similarity).[UniProtKB/Swiss-Prot Function]