

Recombinant Mouse Smad3 Protein, Myc/DDK-tagged

Cat. No. Smad3-5951M Lot. No. (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length SMAD family member 3 (Smad3), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	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.
Molecular Mass	48.1 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and

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handling conditions. Avoid repeated freeze-thaw cycles.

Storage Store at -80 centigrade after receiving vials.

Concentration >50 µg/mL as determined by microplate BCA method

Storage Buffer 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name Smad3 SMAD family member 3 [*Mus musculus* (house mouse)]

Official Symbol Smad3

Synonyms SMAD3; MAD homolog 3 (*Drosophila*); mothers against decapentaplegic homolog 3; mad3; mMad3; Smad 3; SMAD family member 3; mothers against DPP homolog 3; Madh3; AU022421

Gene ID 17127

mRNA Refseq NM_016769

Protein Refseq NP_058049

UniProt ID Q8BUN5

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