

Recombinant Mouse Smad2 Protein, Myc/DDK-tagged

Cat. No. Smad2-5950M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length SMAD family member 2 (Smad2), 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 SMAD2/SMAD4 complex, activates transcription. May act as a tumor suppressor in colorectal carcinoma. Positively regulates PDPK1 kinase activity by stimulating its dissociation from the 14-3-3 protein YWHAQ which acts as a negative regulator.
Molecular Mass	52.3 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 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

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

GENE INFORMATION

Gene Name Smad2 SMAD family member 2 [Mus musculus (house mouse)]

Official Symbol Smad2

Synonyms SMAD2; MAD homolog 2 (Drosophila); mothers against decapentaplegic homolog 2; Smad 2; SMAD family member 2; mad-related protein 2; mothers against DPP homolog 2; Madh2; Madr2; mMad2; Smad-2; 7120426M23Rik

Gene ID 17126

mRNA Refseq NM_010754

Protein Refseq NP_034884

UniProt ID Q62432

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