Recombinant Mouse Smad7 Protein, Myc/DDK-tagged

Cat. No. Smad7-5954M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length SMAD family member 7 (Smad7), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Antagonist of signaling by TGF-beta (transforming growth factor) type 1 receptor superfamily members; has been shown to inhibit TGF-beta (Transforming growth factor) and activin signaling by associating with their receptors thus preventing SMAD2 access. Functions as an adapter to recruit SMURF2 to the TGF-beta receptor complex. Also acts by recruiting the PPP1R15A-PP1 complex to TGFBR1, which promotes its dephosphorylation. Positively regulates PDPK1 kinase activity by stimulating its dissociation from the 14-3-3 protein YWHAQ which acts as a negative regulator.
Molecular Mass	46.4 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.

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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	Smad7 SMAD family member 7 [Mus musculus (house mouse)]
Official Symbol	Smad7
Synonyms	SMAD7; MAD homolog 7 (Drosophila); mothers against decapentaplegic homolog 7; madh8; SMAD 7; MAD homolog 8; SMAD family member 7; mothers against DPP homolog 7; mothers against DPP homolog 8; mothers against decapentaplegic homolog 8; Madh7
Gene ID	17131
mRNA Refseq	NM_001042660
Protein Refseq	NP_001036125
UniProt ID	O35253

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