

Recombinant Human SMAD5

Cat. No. SMAD5-31194TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length human SMAD5 with N-terminal proprietary tag; amino acids 1-465, 82kDa.
Species	Human
Source	E.coli
ProteinLength	1-465 a.a.
Description	The protein encoded by this gene is involved in the TGF-beta signaling pathway that results in an inhibition of the proliferation of hematopoietic progenitor cells. The encoded protein is activated by BMP type 1 receptor kinase. Three transcript variants encoding the same protein have been found for this gene.
Tissue specificity	Ubiquitous.
Form	Liquid
Storage buffer	Preservative: None Constituents: 25% Glycerol, 50mM Tris HCl, 150mM Sodium chloride, 0.25mM DTT, 0.1mM PMSF, pH 7.5
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequence	Belongs to the dwarfin/SMAD family.Contains 1 MH1 (MAD homology 1)

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Similarities	domain.Contains 1 MH2 (MAD homology 2) domain.
Full Length	Full L.
GENE INFORMATION	
Gene Name	SMAD5 SMAD family member 5 [Homo sapiens]
Official Symbol	SMAD5
Synonyms	SMAD5; SMAD family member 5; MAD, mothers against decapentaplegic homolog 5 (Drosophila) , MADH5, SMAD, mothers against DPP homolog 5 (Drosophila); mothers against decapentaplegic homolog 5; Dwfc; JV5 1;
Gene ID	4090
mRNA Refseq	NM_001001419
Protein Refseq	NP_001001419
MIM	603110
Uniprot ID	Q99717
Chromosome Location	5q31
Pathway	ALK1 signaling events, organism-specific biosystem; ALK2 signaling events, organism-specific biosystem; BMP receptor signaling, organism-specific biosystem; Id Signaling Pathway, organism-specific biosystem; Signal Transduction, organism-specific biosystem;

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Function

protein binding; receptor signaling protein activity; sequence-specific DNA binding
transcription factor activity; transforming growth factor beta receptor, pathway-specific
cytoplasmic mediator activity; ubiquitin protein ligase binding;

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