

Recombinant Human SMAD Family Member 5, GST-tagged

Cat. No. SMAD5-1096H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human SMAD5 was expressed in E. coli cells using an N-terminal GST tag.
Species	Human
Source	E.coli
Description	SMAD5 is a member of the SMAD family and mediates signaling by the transforming growth factor-beta (TGF β) superfamily and related ligands. SMAD5 plays a critical role in the signaling pathway by which TGF β inhibits the proliferation of human hematopoietic progenitor cells. SMAD5 is up-regulated in gastric epithelial cells during the infection of the pathogen Helicobacter pylori and it mediates apoptosis of gastric epithelial cells induced by H. pylori infection. In mature human B cells, bone morphogenetic protein 6 (BMP-6) inhibits cell growth and rapidly induces phosphorylation of SMADs 5 and 8.
Applications	Kinase Assay; Western Blot
Molecular Weight	82 kDa
Form	Recombinant protein stored in 50 mM Tris-HCL, pH 7.5, 150 mM NaCl, 0.1 mM PMSF, 0.25 mM DTT, 25 % glycerol.
Purity	> 90 %

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Concentration	0.2 ug/ul
Sequences	Full-length
Storage	Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Pathways	ALK1 signaling events; ALK2 signaling events; BMP receptor signaling; Id Signaling Pathway; Signaling by BMP; TGF Beta Signaling Pathway; TGF-beta signaling pathway

GENE INFORMATION

Gene Name	SMAD5 SMAD family member 5 [Homo sapiens]
Official Symbol	SMAD5
Synonyms	SMAD5; SMAD family member 5; DWFC; JV5-1; MADH5; DKFZp781C1895; DKFZp781O1323; MAD, mothers against decapentaplegic homolog 5 (Drosophila); SMAD, mothers against DPP homolog 5 (Drosophila); Dwfc; Mothers against decapentaplegic homolog 5; MAD homolog 5; Mothers against DPP homolog 5; Smad5; hSmad5; OTTHUMP00000223331; mothers against decapentaplegic, drosophila, homolog of, 5; SMA- and MAD-related protein 5; SMAD, mothers against DPP homolog 5; SMAD 5
Gene ID	4090
mRNA Refseq	NM_005903
Protein Refseq	NP_005894

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MIM	603110
UniProt ID	Q99717
Chromosome Location	5q31
Function	protein binding; receptor signaling protein activity; transcription activator activity; transcription factor activity; transforming growth factor beta receptor, pathway-specific cytoplasmic mediator activity

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