

## Recombinant Human SMAD Family Member 5, GST-tagged

Cat. No. SMAD5-1493H 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. MW = 82 kDa.

**Species** Human

**Source** E.coli

**Description** SMAD5 is a member of the SMAD family and mediates signaling by the transforming growth factor-beta (TGF $\beta$ ) superfamily and related ligands. SMAD5 plays a critical role in the signaling pathway by which TGF $\beta$  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.

**Sequence** Full-length.

**Applications** Kinase Assay, Western Blot.

**Storage And Stability** 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.

### GENE INFORMATION

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Gene Name</b>	SMAD5 SMAD family member 5 [ Homo sapiens ]
<b>Synonyms</b>	SMAD5; SMAD family member 5; Dwfc; JV5-1; MADH5; DKFZp781C1895; DKFZp781O1323; MAD homolog 5; SMA- and MAD-related protein 5; SMAD, mothers against DPP homolog 5; mothers against decapentaplegic homolog 5; MAD, mothers against decapentaplegic homolog 5; mothers against decapentaplegic, drosophila, homolog of, 5; MAD, mothers against decapentaplegic homolog 5 (Drosophila); SMAD, mothers against DPP homolog 5 (Drosophila); Mothers against DPP homolog 5; SMAD 5; Smad5; hSmad5; mothers against decapentaplegic, drosophila, homolog of, 5
<b>Gene ID</b>	4090
<b>mRNA Refseq</b>	NM_001001419
<b>Protein Refseq</b>	NP_001001419
<b>MIM</b>	603110
<b>UniProt ID</b>	Q99717
<b>Chromosome Location</b>	5q31
<b>Pathway</b>	TGF-beta signaling pathway
<b>Function</b>	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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