

Recombinant Human SMAD5 Protein (Gly210-Val464), His tagged

Cat. No. SMAD5-5870H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human SMAD5 (Gly210-Val464) fused with His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Gly210-Val464
Description	SMAD5 is a member of the SMAD family. Members of this family mediate signal transduction by the TGF-beta/activin/BMP-2/4 cytokine superfamily from receptor Ser/Thr protein kinases at the cell surface to the nucleus. SMAD5 is involved in the TGF-beta signaling pathway that results in an inhibition of the proliferation of hematopoietic progenitor cells. It is also involved in cell signalling and modulates signals of bone morphogenetic proteins (BMP's). The binding of ligands causes the oligomerization and phosphorylation of the SMAD5 protein. SMAD5 is a receptor regulated SMAD (R-SMAD) and is activated by bone morphogenetic protein type 1 receptor kinase.
Form	Lyophilized powder/frozen liquid
Molecular Mass	29.09 kDa
Purity	> 90 % as determined by SDS-PAGE

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Notes	For research use only.
Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 centigrade for one week. Store at -20 to -80 centigrade for twelve months from the date of receipt.
Storage Buffer	Supplied as solution form in PBS, pH 7.5 or lyophilized from PBS, pH 7.5.
Reconstitution	Reconstitute in sterile water for a stock solution.
Shipping	They are shipped out with dry ice/blue ice unless customers require otherwise.
GENE INFORMATION	
Gene Name	SMAD5 SMAD family member 5 [Homo sapiens (human)]
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; SMA- and MAD-related protein 5; SMAD, mothers against DPP homolog 5; MAD, mothers against decapentaplegic homolog 5; mothers against decapentaplegic, drosophila, homolog of, 5; DWFC; JV5-1; MADH5; DKFZp781C1895; DKFZp781O1323;
Gene ID	4090
mRNA Refseq	NM_001001419
Protein Refseq	NP_001001419

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MIM	603110
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UniProt ID	Q99717
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