

Recombinant Human SMAD7 Protein, His-tagged

Cat. No. SMAD7-2705H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human SMAD7 Protein (Trp261-Arg426) with a N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Trp261-Arg426
Description	The protein encoded by this gene is a nuclear protein that binds the E3 ubiquitin ligase SMURF2. Upon binding, this complex translocates to the cytoplasm, where it interacts with TGF-beta receptor type-1 (TGFB1), leading to the degradation of both the encoded protein and TGFB1. Expression of this gene is induced by TGFB1. Variations in this gene are a cause of susceptibility to colorectal cancer type 3 (CRCS3). Several transcript variants encoding different isoforms have been found for this gene.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 23 kDa Accurate Molecular Mass: 23 kDa
Endotoxin	<1.0 EU per 1g (determined by the LAL method).
Purity	> 97%

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Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in PBS or others.

GENE INFORMATION

Gene Name	SMAD7 SMAD family member 7 [Homo sapiens (human)]
Official Symbol	SMAD7
Synonyms	SMAD7; SMAD family member 7; MAD, mothers against decapentaplegic homolog 7 (Drosophila), MADH7, MADH8, SMAD, mothers against DPP homolog 7 (Drosophila); mothers against decapentaplegic homolog 7; hSMAD7; MAD homolog 8; mothers against DPP homolog 8; SMAD, mothers against DPP homolog 7; Mothers against decapentaplegic, drosophila, homolog of, 7; MAD (mothers against decapentaplegic, Drosophila) homolog 7; CRCS3; MADH7; MADH8; FLJ16482;
Gene ID	4092
mRNA Refseq	NM_001190821

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Protein Refseq	NP_001177750
MIM	602932
UniProt ID	O15105

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