

## Recombinant Human SMAD7 protein, His-tagged

**Cat. No.** SMAD7-561H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human SMAD7 protein(NP_001177750)(1-426 aa), fused with His tag, was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                          |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>ProteinLength</b>    | 1-426 aa                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Form</b>             | The purified protein was Lyophilized from sterile PBS (58mM Na <sub>2</sub> HPO <sub>4</sub> , 17mM NaH <sub>2</sub> PO <sub>4</sub> , 68mM NaCl, pH7.). 5 % trehalose and 5 % mannitol are added as protectants before lyophilization.                                                                                                                                                                                                                         |
| <b>AA Sequence</b>      | MFRTKRSALVRRLWRSRAPGGEDEEEGAGGGGGGGELRGEGATDSRAHGAGGG<br>GPGRAGCCLGKAVRGAKGHHHPHPPAAGAGAAGGAEADLKALTHSVLKKLKERQL<br>ELLQAVESRGGTRTACLLPGRLCDRLGPGAPAGAQAQPPSSYSPLLLCKVFR<br>WPDLRHSSEVKRLCCCESYGKINPELVCCNPHLSRLCELESPPPPYSRYPMDFLK<br>PTADCPDAVPSSAETGGTNYLAPGGLSDSQLLLEPGDRSHWCVVAYWEEKTRVGR<br>LYCVQEPSLDIFYDLPQGNQFCLGQLNSDNKSQLVQKVRKIGCGIQLTREVDGW<br>VYNRSSYPIFIKSATLDNPDSRTLLVHKVFPGFSIKAFDYEKAYSLQRPNDHEFMQQP<br>WTGFTVQISFVKGWGQCYTRQFISSCPCWLEVIFNSR |
| <b>Purity</b>           | 90%, by SDS-PAGE with Coomassie Brilliant Blue staining.                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Storage</b>          | Short-term storage: Store at 2-8°C for (1-2 weeks).                                                                                                                                                                                                                                                                                                                                                                                                             |

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Long-term storage: Aliquot and store at -20°C to -80°C for up to 3 months, buffer containing 50% glycerol is recommended for reconstitution. Avoid repeat freeze-thaw cycles.

**Reconstitution**

Reconstitute at 0.25 µg/µl in 200 µl sterile water for short-term storage.  
Reconstitution with 200 µl 50% glycerol solution is recommended for longer term storage.

## GENE INFORMATION

**Gene Name**

SMAD7 SMAD family member 7 [ Homo sapiens ]

**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

**Protein Refseq**

NP\_001177750

**MIM**

602932

**UniProt ID**

O15105

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**SDS-PAGE**

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