

Recombinant Full Length Human SMAD7 Protein, C-Flag-tagged

Cat. No. SMAD7-241HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human SMAD7 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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 (CRC3). Several transcript variants encoding different isoforms have been found for this gene.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	46.2 kDa
AA Sequence	MFRTKRSALVRRLLWRSRAPGGEDEEEGAGGGGGGGELRGEGATDSRAHGAGGG GPGRAGCCLGKAVRGAK GHHPHPPAAGAGAAGGAADLKALHSLVKKLKERQ LELLQAVESRGGTRTACLLLPGRLLDCRLGPGA PAGAQAQPPSSSYSLPLLLCKVF RWPDLRHSSEVKRLCCCESYKINPELVCCNPHHLSRLCELESPPPP YSRYPMDFL KPTADCPDAVPSSAETGGTNYLAPGGLSDSQLLEPGDRSHWCVVAYWEEKTRVG

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

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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

RLYCVQ EPSLDIFYDLPQGNGFCLGQLNSDNKSQLVQKVRISKIGCGIQLTREVDGV
 WVYNRSSYPIFIKSATLDNP DSRTLLVHKVFPFGFSIKAFDYEKAYSLQRPNDHEFMQ
 QPWTGFTVQISFVKGWGQCYTRQFISSCPCWLE
 VIFNSRTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Transcription Factors
Protein Pathways	TGF-beta signaling pathway
Full Length	Full L.

GENE INFORMATION

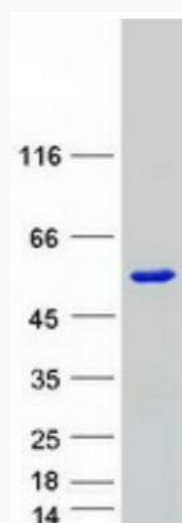
Gene Name	SMAD7 SMAD family member 7 [Homo sapiens (human)]
Official Symbol	SMAD7
Synonyms	CRCS3; MADH7; MADH8

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Gene ID	4092
mRNA Refseq	NM_005904.4
Protein Refseq	NP_005895.1
MIM	602932
UniProt ID	O15105



Coomassie blue staining of purified SMAD7 protein.