

Recombinant Human SMURF2 Protein (S2-E748), His tagged

Cat. No. SMURF2-0440H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human 6His-TEV-(GG)-SMURF2(S2-E748 end) Protein was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	S2-E748
Description	E3 ubiquitin-protein ligase which accepts ubiquitin from an E2 ubiquitin-conjugating enzyme in the form of a thioester and then directly transfers the ubiquitin to targeted substrates. Interacts with SMAD7 to trigger SMAD7-mediated transforming growth factor beta/TGF-beta receptor ubiquitin-dependent degradation, thereby down-regulating TGF-beta signaling. In addition, interaction with SMAD7 activates autocatalytic degradation, which is prevented by interaction with AIMP1. Also forms a stable complex with TGF-beta receptor-mediated phosphorylated SMAD1, SMAD2 and SMAD3, and targets SMAD1 and SMAD2 for ubiquitination and proteasome-mediated degradation. SMAD2 may recruit substrates, such as SNON, for ubiquitin-dependent degradation. Negatively regulates TGFB1-induced epithelial-mesenchymal transition and myofibroblast differentiation.
Form	Liquid
Endotoxin	< 0.01 EU per µg of the protein

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Purity	90%
Stability	Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade.
Storage	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Storage Buffer	Supplied as sterile 50 mM Tris-HCl (pH7.5), 200 mM NaCl, 20% glycerol
Shipping	It is shipped out with blue ice.

GENE INFORMATION

Gene Name	SMURF2 SMAD specific E3 ubiquitin protein ligase 2 [Homo sapiens (human)]
Official Symbol	SMURF2
Synonyms	SMURF2; SMAD specific E3 ubiquitin protein ligase 2; E3 ubiquitin-protein ligase SMURF2; hSMURF2; E3 ubiquitin ligase SMURF2; SMAD ubiquitination regulatory factor 2; SMAD-specific E3 ubiquitin-protein ligase 2; MGC138150; DKFZp686F0270;
Gene ID	64750
mRNA Refseq	NM_022739
Protein Refseq	NP_073576
MIM	605532
UniProt ID	Q9HAU4

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