

Recombinant Human SMURF1, FLAG-tagged

Cat. No. SMURF1-467H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human SMURF1 (amino-acids 150-end) was expressed in a <i>Baculovirus infected Sf9</i> cell expression system with N-terminal FLAG tag. MW=70 kDa.
Species	Human
Source	Sf9 Cells
ProteinLength	150-end a.a.
Description	E3 ubiquitin-protein ligase SMURF1 is an enzyme that in humans is encoded by the SMURF1 gene. This gene encodes a ubiquitin ligase that is specific for receptor-regulated SMAD proteins in the bone morphogenetic protein (BMP) pathway. A similar protein in <i>Xenopus</i> is involved in embryonic pattern formation. Alternative splicing results in multiple transcript variants encoding different isoforms. An additional transcript variant has been identified, but its full length sequence has not been determined.
Formulated In	25 mM Tris-HCl, pH 8.0, 100 mM NaCl, 0.05% Tween-20, 100 µg/ml FLAG peptide, 20% glycerol, and 3 mM DTT.
Application	Useful in conjunction with E1 and E2 for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.
Purity	> 80%.

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Stability >6 months at -80°C.

GENE INFORMATION

Gene Name SMURF1 SMAD specific E3 ubiquitin protein ligase 1 [Homo sapiens]

Synonyms SMAD specific E3 ubiquitin protein ligase 1; KIAA1625; SMURF1; Smad ubiquitination regulatory factor 1; E3 ubiquitin ligase SMURF1; Smad-specific E3 ubiquitin ligase 1; EC 6.3.2.-; hSMURF1; SMAD specific E3 ubiquitin protein ligase 1; SMAD ubiquitination regulatory factor 1; SMAD-specific E3 ubiquitin-protein ligase 1; Smad-specific E3 ubiquitin ligase 1

Gene ID 57154

mRNA Refseq NM_020429

Protein Refseq NP_065162

MIM 605568

UniProt ID Q9HCE7

Chromosome Location 7q22.1

Pathway Endocytosis; TGF-beta signaling pathway; Ubiquitin mediated proteolysis; Signaling by BMP; Signaling by TGF beta

Function I-SMAD binding; R-SMAD binding; acid-amino acid ligase activity; activin binding; ligase activity; protein binding; ubiquitin-protein ligase activity

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