

## Recombinant Human SMURF1, FLAG-tagged

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

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human SMURF1 (amino-acids 150-end) was expressed in <i>aBaculovirus infected Sf9cell</i> expression system with N-terminal FLAG tag. MW=70 kDa.                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Source</b>           | Sf9 Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>ProteinLength</b>    | 150-end a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Description</b>      | 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. |
| <b>Formulated In</b>    | 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.                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Application</b>      | Useful in conjunction with E1 and E2 for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Purity</b>           | > 80%.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

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

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

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

**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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