

## Recombinant Human SMURF2 Protein (1-748 aa), His-tagged

**Cat. No.** SMURF2-1714H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| <b>Product Overview</b> | Recombinant Human SMURF2 Protein (1-748 aa) is produced by Yeast expression system. This protein is fused with a 6xHis tag at the N-terminal. Research Area: Epigenetics and Nuclear Signaling. Protein Description: Full Length.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Source</b>           | Yeast                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>ProteinLength</b>    | 1-748 aa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Description</b>      | <p>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 SMAD1 and SMAD7 in order to trigger their ubiquitination and proteasome-dependent degradation. In addition, interaction with SMAD7 activates autocatalytic degradation, which is prevented by interaction with SCYE1. Forms a stable complex with the TGF-beta receptor-mediated phosphorylated SMAD2 and SMAD3. In this way, SMAD2 may recruit substrates, such as SNON, for ubiquitin-mediated degradation. Enhances the inhibitory activity of SMAD7 and reduces the transcriptional activity of SMAD2. Coexpression of SMURF2 with SMAD1 results in considerable decrease in steady-state level of SMAD1 protein and a smaller decrease of SMAD2 level.</p> |
| <b>Form</b>             | Tris-based buffer, 50% glycerol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Molecular Mass</b>   | 88.2 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

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**AA Sequence**

MSNPGGRRNGPVKLRRLTVLCAKNLVKKDFFRLPDPFAKVVVDGSGQCHSTDTVKN  
 TLDPKWNQHYDLYIGKSDSVTISVWNHKKIHKKQGAGFLGCVRLLSNAINRLKDTGY  
 QRLDLCKLGPNDNDTVRGQIVVSLQSRDRIGTGGQVVDCSRFDNDLPDGWEERR  
 TASGRIQYLNHITRTTQWERPTRPASEYSSPGRPLSCFVDENTPISGTNGATCGQSS  
 DPRLAERRVRSQRHRNYMSRTHLHTPPDLPEGYEQRRTTQQGQVYFLHTQTGVST  
 WHDPRVPRDLSNINCEELGPLPPGWEIRNTATGRVYFVDHNNRTTQFTDPRLSANL  
 HLVLNRQNQLKDQQQQQVVS LCPDDTECLTVPRYKRDLVQKLKILRQELSQQQPQA  
 GHCRIEVSREEIFEESYRQVMKMRPKDLWKRLMIKFRGEEGLDYGGVAREWLYLLS  
 HEMLNPPYYGLFQYSRDDIYTLQINPDSAVNPEHLSYFHFVGRIMGMAVFHGHYIDGG  
 FTLPFYKQLLGKSITLDDMELVDPDLHNSLVWILENDITGVLDTFCVEHNAYGEIIQH  
 ELKPNGKSIPVNEENKKEYVRLYVNWFLRGIEAQFLALQKGFNEVIPQHLLKTFDEK  
 ELELIICGLGKIDVNDWKVNTRLKHCTPDSNIVKFWKAVEFFDEERRARLLQFVTG  
 SSRVPLQGFKALQGAAGPRLFTIHQIDACTNNLPKAHTCFNRIDIPPYESYEKLYEKL  
 TAIEETCGFAVE

**Purity**

> 90% as determined by SDS-PAGE.

**Notes**

Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.

**Storage**

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.

**Concentration**

A hardcopy of COA with reconstitution instruction is sent along with the products.

**GENE INFORMATION**
**Gene Name**

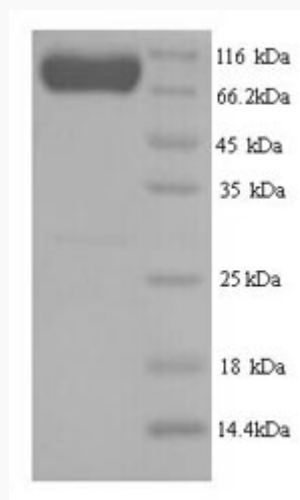
SMURF2 SMAD specific E3 ubiquitin protein ligase 2 [ Homo sapiens ]

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|                        |                                                                        |
|------------------------|------------------------------------------------------------------------|
| <b>Official Symbol</b> | SMURF2                                                                 |
| <b>Synonyms</b>        | SMURF2; hSMURF2; E3 ubiquitin ligase SMURF2; MGC138150; DKFZp686F0270; |
| <b>Gene ID</b>         | 64750                                                                  |
| <b>mRNA Refseq</b>     | NM_022739                                                              |
| <b>Protein Refseq</b>  | NP_073576                                                              |
| <b>MIM</b>             | 605532                                                                 |
| <b>UniProt ID</b>      | Q9HAU4                                                                 |



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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