

## Recombinant Human Suppressor Of fused Homolog (Drosophila), His-tagged

**Cat. No.** SUFU-6871H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                 |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant human SUFU protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques. MW: 56.1 kDa.                                                                                                                            |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                           |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                          |
| <b>ProteinLength</b>    | 1-484aa                                                                                                                                                                                                                                                                                         |
| <b>Description</b>      | SUFU (Suppressor of fused homolog) belongs to the SUFU family. This protein is negative regulator of the hedgehog signaling pathway. Defects in this gene are a cause of medulloblastoma. SUFU has been shown to interact with GLI1, GLI3 and PEX26.                                            |
| <b>Form</b>             | Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 2mM DTT, 10% glycerol, 50mM NaCl.                                                                                                                                                                                                           |
| <b>Molecular Mass</b>   | 56.1 kDa (504aa)                                                                                                                                                                                                                                                                                |
| <b>AA Sequence</b>      | MGSSHHHHHH SSGLVPRGSH MAELRPSGAP GPTAPPAPGP TAPPAFASLF<br>PPGLHAIYGE CRRLYPDQPN PLQVTAIVKY WLGGPDPLDY VSMYRNVGSP<br>SANIPEHWHY ISFGLSDLYG DNRVHEFTGT DGPSGFGFEL TFRLKRETGE<br>SAPPTWPAEL MQGLARYVFQ SENTFCSGDH VSWHSPLDNS ESRIQHMLLT<br>EDPQM QPVQT PFGVVTFLQI VGVCTEELHS AQQWNGQGIL ELLRTVPIAG |

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GPWLITDMRR GETIFEIDPH LQERVDKGIE TDGSNLSGVS AKCAWDDLRS  
 PPEDDEDSRS ICIGTQPRRL SGKDTEQIRE TLRRGLEINS KPVLPINPQ  
 RQNGLAHDRA PSRKDSLESD SSTAIPHEL IRTQLESVH LKFNQESGAL  
 IPLCLRGRLL HGRHFTYKSI TGDMAITFVS TGVEGAFATE EHPYAAHGPW  
 LQILLTEEFV EKMLEDL DL TSPEEFKLKPK EYSWPEKKLK VSILPDVVFD SPLH

**Purity** >90% by SDS - PAGE

**Applications** SDS-PAGE

**Storage** Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

**Concentration** 0.5mg/ml (determined by Bradford assay)

## GENE INFORMATION

**Gene Name** [SUFU suppressor of fused homolog \(Drosophila\) \[ Homo sapiens \]](#)

**Official Symbol** SUFU

**Synonyms** SUFU; suppressor of fused homolog (Drosophila); suppressor of fused homolog; PRO1280; SUFUH; SUFUXL;

**Gene ID** [51684](#)

**mRNA Refseq** [NM\\_001178133](#)

**Protein Refseq** [NP\\_001171604](#)

**MIM** [607035](#)

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|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>UniProt ID</b>          | Q9UMX1                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Chromosome Location</b> | 10q24.32                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Pathway</b>             | Basal cell carcinoma, organism-specific biosystem; Basal cell carcinoma, conserved biosystem; Hedgehog Signaling Pathway, organism-specific biosystem; Hedgehog signaling events mediated by Gli proteins, organism-specific biosystem; Hedgehog signaling pathway, organism-specific biosystem; Hedgehog signaling pathway, conserved biosystem; Pathways in cancer, organism-specific biosystem; |
| <b>Function</b>            | beta-catenin binding; protein binding; protein kinase binding; signal transducer activity; transcription corepressor activity; transcription factor binding;                                                                                                                                                                                                                                       |

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