

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

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

SPECIFICATION

Product Overview	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.
Species	Human
Source	E.coli
ProteinLength	1-484aa
Description	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.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 2mM DTT, 10% glycerol, 50mM NaCl.
Molecular Mass	56.1 kDa (504aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MAELRPSGAP GPTAPPAPGP TAPPAFASLF PPGLHAIYGE CRRLYPDQPN PLQVTAIVKY WLGGPDPLDY VSMYRNVGSP SANIPEHWHY ISFGLSDLYG DNRVHEFTGT DGPSGFGFEL TFRLKRETGE SAPPTWPAEL MQGLARYVFQ SENTFCSGDH VSWHSPLDNS ESRIQHMLLT EDPQMMPVQT PFGVVTFLQI VGVCTEELHS AQQWNGQGIL ELLRTVPIAG

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GPWLITDMRR GETIFEIDPH LQERVDKGIE TDGSNLSGVS AKCAWDDLSR
 PPEDDEDSRS ICIGTQPRRL SGKDTEQIRE TLRRGLEINS KPVLPINPQ
 RQNGLAHDRA PSRKDSLESD SSTAIPHEL IRTQLESVH LKFNQESGAL
 IPLCLRGRLL HGRHFTYKSI TGDMAITFVS TGVEGAFATE EHPYAAHGPW
 LQILLTEEFV EKMLEDL DL TSPEEFKLPK 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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UniProt ID	Q9UMX1
Chromosome Location	10q24.32
Pathway	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;
Function	beta-catenin binding; protein binding; protein kinase binding; signal transducer activity; transcription corepressor activity; transcription factor binding;