Recombinant Human SUFU, His-tagged

Cat. No. SUFU-31479TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length Human Suppressor of Fused with a N terminal His tag; 504 amino acids with a predicted MWt 56.1 kDa including tag.
Species	Human
Source	E.coli
ProteinLength	484 amino acids
Description	The Hedgehog signaling pathway plays an important role in early human development. The pathway is a signaling cascade that plays a role in pattern formation and cellular proliferation during development. This gene encodes a negative regulator of the hedgehog signaling pathway. Defects in this gene are a cause of medulloblastoma. Alternative splicing results in multiple transcript variants.
Conjugation	HIS
Molecular Weight	56.100kDa inclusive of tags
Tissue specificity	Ubiquitous in adult tissues. Detected in osteoblasts of the perichondrium in the developing limb of 12-week old embryos. Isoform 1 is detected in fetal brain, lung, kidney and testis. Isoform 2 is detected in fetal testis, and at much lower levels in feta
Form	Liquid

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Purity	>90% by SDS-PAGE
Storage buffer	pH: 8.00Constituents:0.32% Tris HCl, 0.03% DTT, 10% Glycerol, 0.79% Sodium chloride
Storage	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MAELRPSGAP GPTAPPAPGP TAPPAFASLF PPGLHAIYGE CRRLYPDQPN PLQVTAIVKY WLGGPDPLDY VSMYRNVGSP SANIPEHWHY ISFGLSDLYG DNRVHEFTGT DGPSGFGFEL TFRLKRETGE SAPPTWPAEL MQGLARYVFQ SENTFCSGDH VSWHSPLDNS ESRIQHMLLT EDPQMQPVQT PFGVVTFLQI VGVCTEELHS AQQWNGQGIL ELLRTVPIAG GPWLITDMRR GETIFEIDPH LQERVDKGIE TDGSNLSGVS AKCAWDDLSR PPEDDEDSRS ICIGTQPRRL SGKDTEQIRE TLRRGLEINS KPVLPPINPQ RQNGLAHDRA PSRKDSLESD SSTAIIPHEL IRTRQLESVH LKFNQESGAL IPLCLRGRLL HGRHFTYKSI TGDMAITFVS TGVEGAFATE EHPYAAHGPW LQILLTEEFV EKMLEDLEDL TSPEEFKLPK EYSWPEKKLK VSILPDVVFD SPLH
Sequence Similarities	Belongs to the SUFU family.

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;

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Gene ID	51684
mRNA Refseq	NM_001178133
Protein Refseq	NP_001171604
MIM	607035
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;
Function	beta-catenin binding; protein binding; protein kinase binding; signal transducer activity; transcription corepressor activity;

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