

Recombinant Human sprouty-related, EVH1 domain containing 1, His-tagged

Cat. No. SPRED1-630H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	SPRED1, 1-444aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	1-444 a.a.
Description	SPRED1 is a member of the Sprouty family of proteins and is phosphorylated by tyrosine kinase in response to several growth factors. This protein can act as a homodimer or as a heterodimer with SPRED2 to regulate activation of the MAP kinase cascade. Defects in this gene are a cause of neurofibromatosis type 1-like syndrome (NFLS). Recombinant human SPRED1 protein, fused to His-tag at N-terminus, was expressed in E.coli.
Form	Liquid. In 20mM Tris-HCl (pH 8.0) containing 10% glycerol
Molecular Mass	52.9 kDa (467aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMSEETAT SDNDNSYARV RAVVMTRDDS SGGWLPLGGS GLSSVTVFKV PHQEENGCAD FFIRGERLRD KMOVVLECMK KDLIYNKVTP TFHHWKIDDK KFGTLFQSPA DARAfDRGIR RAIEDISQGC PESKNEAEGA DDLQANEEDS SSSLVKDHLF QQETVVTSEP YRSSNIRPSP FEDLNARRVY MQSQANQITF GQPGLDIQSR SMEYVQRQIS KECGSLKSQN

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RVPLKSIRHV SFQDEDEIVR INPRDILIRR YADYRHPDMW KNDLERDDAD
 SSIQFSKPDS KKSDYLYSCG DETKLSSPKD SVVFKTQPSS LKIKKSKRRK
 EDGERSRCVY CQERFNHEEN VRGKCQDAPD PIKRCIQVS CMLCAESMLY
 HCMSDSEGDF SDPCSCDTSK DKFCLRWLAL VALSFIVPCM CCYVPLRMCH
 RCGEACGCCG GKHKAAG

Purity >80% by SDS - PAGE

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

Concentration 0.5 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name [SPRED1 sprouty-related, EVH1 domain containing 1 \[Homo sapiens \]](#)

Official Symbol SPRED1

Synonyms SPRED1; sprouty-related, EVH1 domain containing 1; sprouty-related, EVH1 domain-containing protein 1; FLJ33903; hSpred1; spread-1; suppressor of Ras/MAPK activation; EVH1/Sprouty domain containing protein; NFLS;

Gene ID [161742](#)

mRNA Refseq [NM_152594](#)

Protein Refseq [NP_689807](#)

MIM [609291](#)

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UniProt ID	Q7Z699
Chromosome Location	15q14
Pathway	Jak-STAT signaling pathway, organism-specific biosystem; Jak-STAT signaling pathway, conserved biosystem; Kit Receptor Signaling Pathway, organism-specific biosystem; Signaling events mediated by Stem cell factor receptor (c-Kit), organism-specific biosystem;
Function	phosphatase binding; protein binding; stem cell factor receptor binding;

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