Sprouty-Related, EVH1 Domain-Containing Protein 2 (SPRED2) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	Sprouty-related, EVH1 domain-containing protein 2 (SPRED2), Recombinant Protein
Full Product Name	Recombinant Human Sprouty-related, EVH1 domain-containing protein 2 (SPRED2)
Product Gene Name	SPRED2 recombinant protein
Product Synonym Gene Name	SPRED2
Sequence	MTEETHPDDD SYIVRVKAVV MTRDDSSGGW FPQEGGGISR VGVCKVMHPE GNGRSGFLIH GERQKDKLVV LECYVRKDLV YTKANPTFHH WKVDNRKFGL TFQSPADARA FDRGVRKAIE DLIEGSTTSS STIHNEAELG DDDVFTTATD SSSNSSQKRE QPTRTISSPT SCEHRRIYTL GHLHDSYPTD HYHLDQPMPR PYRQVSFPDD DEEIVRINPR EKIWMTGYED YRHAPVRGKY PDPSEDADSS YVRFAKGEVP KHDYNYPYVD SSDFGLGEDP KGRGGSVIKT QPSRGKSRRR KEDGERSRCV YCRDMFNHEE NRRGHCQDAP DSVRTCIRRV SCMWCADSML YHCMSDPEGD YTDPCSCDTS DEKFCLRWMA LIALSFLAPC MCCYLPLRAC YHCGVMCRCC GGKHKAAA
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	47,033 Da
Sequence Positions	1-418, Full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
OMIM	609292
3D Structure	ModBase 3D Structure for Q7Z698
Species	Human
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for SPRED2 recombinant protein	MBS1359985 is a recombinant protein targeting SPRED2. Also known as Recombinant Human Sprouty-related, EVH1 domain-containing protein 2 (SPRED2). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of SPRED2 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SPRED2. It may not necessarily be applicable to this product.

NCBI GI #	189571671
NCBI GeneID	200734

NCBI Accession #	NP_001121682.1
UniProt Primary Accession #	Q7Z698
UniProt Secondary Accession #	Q2NKX6; A1L3V4; B7Z5K7; D6W5F7; E9PEP0
UniProt Related Accession #	Q7Z698
GenBank Nucleotide #	NM_001128210.1
NCBI Official Full Name	sprouty-related, EVH1 domain-containing protein 2 isoform b
NCBI Official Synonym Full Names	sprouty related EVH1 domain containing 2
NCBI Official Symbol	SPRED2
NCBI Official Synonym Symbols	Spred-2
UniProt Protein Name	Sprouty-related, EVH1 domain-containing protein 2
Protein Family	Sprouty-related, EVH1 domain-containing protein
UniProt Gene Name	SPRED2
UniProt Synonym Gene Names	Spred-2
NCBI Protein Information	sprouty-related, EVH1 domain-containing protein 2
NCBI Summary for SPRED2	SPRED2 is a member of the Sprouty (see SPRY1; MIM 602465)/SPRED family of proteins that regulate growth factor-induced activation of the MAP kinase cascade (see MAPK1; MIM 176948) (Nonami et al., 2004 [PubMed 15465815]).[supplied by OMIM, Mar 2008]
UniProt Comments for SPRED2	Negatively regulates Ras signaling pathways and downstream activation of MAP kinases.
Research Articles on SPRED2	**1.** Our findings show that miR-487a, mediated by heat shock factor 1, promotes proliferation and metastasis of Hepatocellular carcinoma (HCC) by PIK3R1 and SPRED2 binding, respectively. Our study provides a rationale for developing miR-487a as a potential prognostic marker or a potential therapeutic target against HCC.
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