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# Recombinant human SPRED1 protein

Catalog Number: ATGP2853

# **PRODUCT INFORMATION**

### **Expression system**

E.coli

#### **Domain**

1-444aa

#### **UniProt No.**

07Z699

#### **NCBI Accession No.**

NP 689807

#### **Alternative Names**

Sprouty-related EVH1 domain-containing protein 1, Sprouty-related, EVH1 domain-containing protein 1, hSpred1, NFLS, spred-1

# **PRODUCT SPECIFICATION**

# **Molecular Weight**

52.9 kDa (467aa)

#### Concentration

0.5mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol

#### **Purity**

> 80% by SDS-PAGE

#### Tag

His-Tag

# **Application**

SDS-PAGE, Denatured

### **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

# **BACKGROUND**

# **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.



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# **Amino acid Sequence**

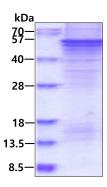
<MGSSHHHHHH SSGLVPRGSH MGS>MSEETAT SDNDNSYARV RAVVMTRDDS SGGWLPLGGS GLSSVTVFKV PHQEENGCAD FFIRGERLRD KMVVLECMLK KDLIYNKVTP TFHHWKIDDK KFGLTFQSPA DARAFDRGIR RAIEDISQGC PESKNEAEGA DDLQANEEDS SSSLVKDHLF QQETVVTSEP YRSSNIRPSP FEDLNARRVY MQSQANQITF GQPGLDIQSR SMEYVQRQIS KECGSLKSQN RVPLKSIRHV SFQDEDEIVR INPRDILIRR YADYRHPDMW KNDLERDDAD SSIQFSKPDS KKSDYLYSCG DETKLSSPKD SVVFKTQPSS LKIKKSKRRK EDGERSRCVY CQERFNHEEN VRGKCQDAPD PIKRCIYQVS CMLCAESMLY HCMSDSEGDF SDPCSCDTSD DKFCLRWLAL VALSFIVPCM CCYVPLRMCH RCGEACGCCG GKHKAAG

#### **General References**

Nonami A., et al. (2005) Genes Cells 10:887-895. King J.A.J., et al. (2005) Biochem. J. 388:445-454.

# **DATA**

#### **SDS-PAGE**



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

