

Recombinant human Vav-1 protein

Catalog Number: ATGP2424

PRODUCT INFORMATION

Expression system

E.coli

Domain

189-565aa

UniProt No.

P15498

NCBI Accession No.

NP_005419

Alternative Names

Proto-oncogene vav isoform 1, Proto-oncogene vav isoform 1, VAV, Proto-oncogene vav, vav 1 guanine nucleotide exchange factor, vav 1 oncogene

PRODUCT SPECIFICATION

Molecular Weight

46.8 kDa (400aa) confirmed by MALDI-TOF

Concentration

0.25mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 30% glycerol, 2mM DTT

Purity

> 85% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

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

Proto-oncogene vav isoform 1, also known as VAV1, is a member of the VAV gene family. The VAV1 proteins are guanine nucleotide exchange factors (GEFs) for Rho family GTPases that activate pathways leading to actin cytoskeletal rearrangements and transcriptional alterations. In addition, VAV1 contains an SH2 domain, which could indicate its role as a substrate for tyrosine kinases. Expression of VAV1 is limited exclusively to cells of hematopoietic origin, including those of the erythroid, lymphoid and myeloid lineages. Recombinant human

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VAV1 protein, fused to His-tag at N-terminus, was expressed in *E. coli* and purified by using conventional chromatography techniques.

Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH MGS>MTEYDKR CCCLREIQQT EEKYTDTLGS IQQHFLKPLQ RFLKPQDIEI IFINIEDLLR VHTHFLKEMK EALGTPGAAN LYQVFIKYKE RFLVYGRYCS QVESASKHLD RVAAAREDVQ MKLEECSQRA NNGRFTLRDL LMVPMQRVLK YHLLLQELVK HTQEAMEKEN LRLALDAMRD LAQCVNEVKR DNETLRQITN FQLSIENLDQ SLAHYGRPKI DGELKITSVE RRSKMDRYAF LLDKALLICK RRGDSYDLKD FVNLHSFQVR DDSSGDRDNK KWSHMFLIE DQGAQGYELF FKTRCLKKKW MEQFEMAISN IYPENATANG HDFQMFSFEE TTSCACQML LRGTFYQGYR CHRCRASAHK ECLGRVPPCG

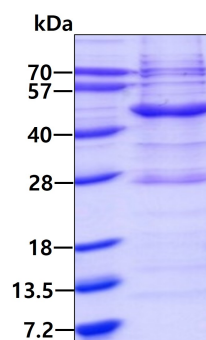
General References

Bustelo X R., et al. (1992) *Nature*. 356:68-71.

Katzav S., et al. (1989) *EMBO J.* 8:2283-2290.

DATA

SDS-PAGE



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