

VAV1, 189-565aa, Human, His tag, E.coli

Cat.NO.: TP04461

3th Edition

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

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

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

Molecular Weight:46.8 kDa (400aa) confirmed by MALDI-TOF

Sequences:

MGSSHHHHHSSGLVPRGSHMGSMTEYDKRCCCLREIQQTEEKYTDTLGSIQQHFLKPLQRFLKPQDIEIIFINIEDL
LRVHTHFLKEMKEALGTPGAANLYQVFIKYKERFLVYGRYCSQVESASKHLDRVAAAREDVQMKLEECSSQRANNG
RFTLRDLLMVPMQRVLYKYLHLLQELVKHTQEAMEKENLRLALDAMRDLAQCNEVKRDNETLRQITNFQLSIENLD
QSLAHYGRPKIDGELKITSVERRSKMDRYAFLLDKALLICKRRGDSYDLKDFVNLHSFQVRDDSSGDRDNKKWSHM
FLLIEDQGAQGYELFFKTRELKWKWMEQFEMAIISNIYPENATANGHDFQMFSFEETTSCACQMLLRGTFYQGYRC
HRCRASAHKECLGRVPPCG

Purity:> 95% by HPLC

Concentration:0.5mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

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