

# Recombinant Human vav 1 guanine nucleotide exchange factor, His-tagged

Cat. No. VAV1-341H Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	VAV1, 189-565aa, Human, His tag, E.coli
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	189-565 a.a.
<b>Description</b>	<p>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.</p>
<b>Form</b>	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 30% glycerol, 2mM DTT
<b>Molecular Mass</b>	46.8 kDa (400aa) confirmed by MALDI-TOF
<b>AA Sequence</b>	MGSSHHHHHH SSGLVPRGSH MGSMT EYDKR CCCLREIQQT EEKYTDTLGS

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IQQHFLKPLQ RFLKPQDIEI IFINIEDLLR VHTHFLKEMK EALGTPGAAN  
 LYQVFIKYKE RFLVYGRYCS QVESASKHLD RVAAAREDVQ MKLEEC SQRA  
 NNGRFTLRDL LMVPMQRVLK YHLLLQELVK HTQEAMEKEN LRLALDAMRD  
 LAQCVNEVKR DNETLRQITN FQLSIENLDQ SLAHYGRPKI DGELKITSVE  
 RRSKMDRYAF LLDKALLICK RRGDSYDLKD FVNLHSFQVR DDSSGDRDNK  
 KWSHMFLIE DQGAQGYELF FKTRELKKKW MEQFEMAISN IYPENATANG  
 HDFQMFSFEE TTSCKACQML LRGTFYQGYR CHR CRASAHK ECLGRVPPCG

**Purity** >85% 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** 0.5mg/ml (determined by Bradford assay)

## GENE INFORMATION

**Gene Name** [VAV1 vav 1 guanine nucleotide exchange factor \[ Homo sapiens \]](#)

**Official Symbol** VAV1

**Synonyms** VAV1; vav 1 guanine nucleotide exchange factor; VAV, vav 1 oncogene; proto-oncogene vav; vav 1 oncogene; VAV;

**Gene ID** [7409](#)

**mRNA Refseq** [NM\\_001258206](#)

**Protein Refseq** [NP\\_001245135](#)

**MIM** [164875](#)

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<b>UniProt ID</b>	P15498
<b>Chromosome Location</b>	19p13.2
<b>Pathway</b>	Adaptive Immune System, organism-specific biosystem; Antigen Activates B Cell Receptor Leading to Generation of Second Messengers, organism-specific biosystem; B Cell Receptor Signaling Pathway, organism-specific biosystem; B cell receptor signaling pathway, organism-specific biosystem; B cell receptor signaling pathway, conserved biosystem; CD28 co-stimulation, organism-specific biosystem; CD28 dependent Vav1 pathway, organism-specific biosystem;
<b>Function</b>	Rac guanyl-nucleotide exchange factor activity; guanyl-nucleotide exchange factor activity; metal ion binding; protein binding; sequence-specific DNA binding transcription factor activity;

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