

## Product datasheet for **AR51244PU-S**

### VAV1 (189-565, His-tag) Human Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	VAV1 (189-565, His-tag) human recombinant protein, 20 µg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MGSSHHHHHH SSGLVPRGSH MGSMTYDKR CCCLREIQQT EEKYDTLGS 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 FKTRELKKKW MEQFEMAISN IYPENATANG HDFQMFSFEE TTSCKACQML LRGTfyqgyr CHRcrSAHK ECLGRVPPCG
Tag:	His-tag
Predicted MW:	46.8 kDa
Concentration:	lot specific
Purity:	>85% by SDS - PAGE
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 30% glycerol, 2 mM DTT
Preparation:	Liquid purified protein
Protein Description:	Recombinant human VAV1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Storage:	Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	<a href="#">NP_001245135</a>
Locus ID:	7409
UniProt ID:	<a href="#">Q96D37</a> , <a href="#">A0A0A0MR07</a>
Cytogenetics:	19p13.3



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**Synonyms:** VAV

**Summary:** This gene is a member of the VAV gene family. The VAV proteins are guanine nucleotide exchange factors (GEFs) for Rho family GTPases that activate pathways leading to actin cytoskeletal rearrangements and transcriptional alterations. The encoded protein is important in hematopoiesis, playing a role in T-cell and B-cell development and activation. The encoded protein has been identified as the specific binding partner of Nef proteins from HIV-1. Coexpression and binding of these partners initiates profound morphological changes, cytoskeletal rearrangements and the JNK/SAPK signaling cascade, leading to increased levels of viral transcription and replication. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Apr 2012]

**Protein Families:** Druggable Genome, Transcription Factors

**Protein Pathways:** B cell receptor signaling pathway, Chemokine signaling pathway, Fc epsilon RI signaling pathway, Fc gamma R-mediated phagocytosis, Focal adhesion, Leukocyte transendothelial migration, Natural killer cell mediated cytotoxicity, Regulation of actin cytoskeleton, T cell receptor signaling pathway

**Product images:**

