

# Recombinant Human VAV1 Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** VAV1-6085H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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| <b>Product Overview</b> | VAV1 MS Standard C13 and N15-labeled recombinant protein (NP_005419) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Description</b>      | 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. |
| <b>Molecular Mass</b>   | 98.1 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>AA Sequence</b>      | MELWRQCTHWLIQCRVLPSPSHRVTDGAQVCELAQALRDGVLLCQLLNLLPHAIN<br>LREVNLRPQMSQFLCLKNIRTFLLSTCCEKFGLKRSELFADFDFVQDFGKVIYTL<br>LSWTPIAQNRGIMPFPTEESVSGDEDIYSGLSQIDDTVEEDEDLYDCVENEEAEGD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

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EIYEDLMRSEPVSMPPKMTEYDKRCCCLREIQQTEEKYTDTLGSIQQHFLKPLQRFL  
 KPQDIEIIFINIEDLLRVHTHFLKEMKEALGTPGAANLYQVFIKYKERFLVYGRYCSQV  
 ESASKHLDRVAAAREDVQMKLEECsqRANNGRFTLRDLLMVPmQrVLKYHLLQEL  
 VKHTQEAMEKENLRLALDAMRDLAQCVNEVKRDNETLRQITNFQLSIENLDQSLAHY  
 GRPKIDGELKITSVERRSKMDRYAFLLDKALLICKRRGDSYDLKDFVNLHSFQVRDD  
 SSGDRDNKKWSHMFLIEDQGAQGYELFFKTRELKKKWMEQFEMAISNIYPENATA  
 NGHDFQMFSFEETTSCKACQMLLRGTFYQGYRCHRCRASAHKECLGRVPPCGRH  
 GQDFPGTMKKDKLHRRAQDKKRNELGLPKMEVFQEYYGLPPPPGAIGPFLRLNPG  
 DIVELTKAEAEQNWWEGRNTSTNEIGWFPCNRVKPYVHGPPQDLSVHLWYAGPME  
 RAGAESILANRSDGTFLVRQVRKDAAEFAISIKYNVEVKHIKIMTAEGLYRITEKKAfr  
 GLTELVEFYQQNSLKDCFKSLDTTLQFPFKEPEKRTISRPavgSTkyFGTAKARYDF  
 CARDRSELSLKEGDIIKILNKKGGQQGWWRGEIYGRVGWFPANYVEEDYSEYCTRTR  
 PLEQKLISEEDLAANDILDYKDDDDKV

**Purity** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Stability** Stable for 3 months from receipt of products under proper storage and handling conditions.

**Storage** Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

**Concentration** 50 µg/mL as determined by BCA

**Storage Buffer** 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

## GENE INFORMATION

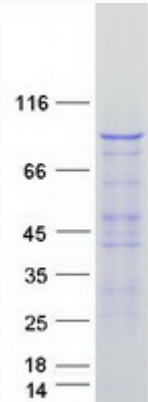
**Gene Name** VAV1 vav 1 guanine nucleotide exchange factor [ Homo sapiens (human) ]

**Official Symbol** VAV1

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|-----------------------|---------------------------------------------------------------------------------------------------------------|
| <b>Synonyms</b>       | VAV1; vav 1 guanine nucleotide exchange factor; VAV, vav 1 oncogene; proto-oncogene vav; vav 1 oncogene; VAV; |
| <b>Gene ID</b>        | 7409                                                                                                          |
| <b>mRNA Refseq</b>    | NM_005428                                                                                                     |
| <b>Protein Refseq</b> | NP_005419                                                                                                     |
| <b>MIM</b>            | 164875                                                                                                        |
| <b>UniProt ID</b>     | P15498                                                                                                        |
| <b>SDS-PAGE</b>       |                            |