

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

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

SPECIFICATION

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

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EIYEDLMRSEPVSMPPKMTEYDKRCCCLREIQQTEEKYTDTLGSIQQHFLKPLQRFL
 KPQDIEIIFINIEDLLRVHTHFLKEMKEALGTPGAANLYQVFIKYKERFLVYGRYCSQV
 ESASKHLDRVAAAREDVQMKLEECSSQRANNGRFTLRDLLMVPQMQRVLKYHLLQEL
 VKHTQEAMEKENLRLALDAMRDLAQCVNEVKRDNETLRQITNFQLSIENLDQSLAHY
 GRPKIDGELKITSVERRSKMDRYAFLLDKALLICKRRGDSYDLKDFVNLHSFQVRDD
 SSGDRDNKKWSHMFLIEDQGAQGYELFFKTRELKKKWMEQFEMAISNIYPENATA
 NGHDFQMFSFEETTSCKACQMLLRGTFYQGYRCHRCRASAHKECLGRVPPCGRH
 GQDFPGTMKKDKLHRRRAQDKKRNELGLPKMEVFQEYYGLPPPPGAIGPFLRLNPG
 DIVELTKAEAEQNWWEGRNTSTNEIGWFPCNRVKPYVHGPPQDLSVHLWYAGPME
 RAGAESILANRSDGTFLVRQVRKDAAEFAISIKYNVEVKHIKIMTAEGLYRITEKKAFR
 GLTELVEFYQQNSLKDCFKSLDCTLQFPFKEPEKRTISRPVAVGSTKYFGTAKARYDF
 CARDRSELSLKEGDIIKILNKKGGQQGWWRGEIYGRVGVWFPANYVEEDYSEYCTRTR
 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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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_005428
Protein Refseq	NP_005419
MIM	164875
UniProt ID	P15498
SDS-PAGE	