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## Product Data Sheet

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Product Name: VAV1 Human  
 Cat. No.: GP24981  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Vav 1 Guanine Nucleotide Exchange Factor; VAV; Vav 1 Oncogene; Proto-Oncogene Vav.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMTEYDKR CCCLREIQQT EEKYDTLGS IQQHFLKPLQ RFLKPQDIEIIFINIEDLLR VHTHFLKEMK EALGTPGAAN LYQVFIKYKE RFLVYGRYCS QVESASKHLD RVAAAREDVQMKLEECQRA NNGRFTLRDL LMVPMQRVLK YHLLLQELVK HTQEAMEKEN LRLALDAMRD LAQCVNEVKR DNETLRQITN FQLSIENLDQSLAHYGRPFI DGELKITSVE RRSKMDRYAF LLDKALLICK RRGDSYDLKD FVNLHSFQVR DDSSGDRDNKKWSHMFLLE DQGAQGYELF FKTRELKKKW MEQFEMAISN IYPENATANG HDFQMFSFEE TTSCACQML LRGTFYQGYR CHRCRASAHK ECLGRVPPCG		
Formulation	VAV1 protein solution (0.25mg/ml) containing in 20mM Tris-HCl buffer (pH 8.0), 0.2M NaCl, 30% glycerol and 2mM DTT.		

### Introduction

Vav1 Guanine Nucleotide Exchange Factor (VAV1), belongs to the VAV gene family. The VAV1 proteins are guanine nucleotide exchange factors (GEFs) for Rho family GTPases which activate pathways leading to actin cytoskeletal rearrangements and transcriptional alterations. VAV1 is essential in hematopoiesis, taking part in T-cell and B-cell development and activation. VAV1 has been identified as the specific binding partner of Nef proteins from HIV-1. In addition, VAV1 contains an SH2 domain, which could show its function as a substrate for tyrosine kinases. Expression of VAV1 is limited solely to cells of hematopoietic origin, as well as those of the erythroid, lymphoid and myeloid lineages. Among the diseases associated with VAV1 are cherubism, and hiv-1.

### Stability

**Caution: Product has not been fully validated for medical applications. For research use only.**

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Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please avoid freeze thaw cycles.

### Background

VAV1 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 400 amino acids (189-565a.a) and having a molecular mass of 46.8kDa.

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