9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

VNN1 Human

Vanin 1 Human Recombinant
RCP2554

Product Overview

Name	VNN1 Human
Description	
Vanin 1 Human Recombinant	
Accession (Primary)	O95497
Synonyms	
Vanin 1, Vascular Non-Inflammatory Molecule 1, Pantetheine Hydrolase, EC 3.5.1.92, Vanin-1, HDLCQ8, Tiff66, Pantetheinase, Vannin 1, EC 3.5.1, VNN1.	
Introduction	
Vanin 1 (VNN1) belongs to the vanin family of proteins, which share extensive sequence similarity with each other, and also with biotinidase. This family includes secreted and membrane-associated proteins, a few of which have been described to participate in hematopoietic cell trafficking. No biotinidase activity has been established for any of the vanin proteins; nevertheless, they possess pantetheinase activity, which may have a role in oxidative-stress response. VNN1 protein, like its mouse homolog, is probably a GPI-anchored cell surface molecule. The mouse VNN1 protein is expressed by the perivascular thymic stromal cells and regulates migration of T-cell progenitors to the thymus. VNN1 is an amidohydrolase which hydrolyzes specifically one of the carboamide linkages in D-pantetheine thus recycling pantothenic acid (vitamin B5).	
Source	
Escherichia Coli.	
Physical Appearance	
Filtered White lyophilized (freeze-dried) powder.	
Formulation	
VNN1 was filtered (0.4 µm) and lyophilized in 20mM Tris buffer, 50mM NaCl and 0.1% amisoft CS-22, pH 7.5.	
Stability	
Store lyophilized protein at -20°C. Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after two weeks at 4°C.	
Purity	
Greater than 95.0% as determined by SDS-PAGE.	

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Amino acid sequence

MKHHHHHHAS QDTFTAAVYE HAAILPNATL TPVSREEALA LMNRNLDILE GAITSAADQG AHIIVTPEDA IYGWNFNRDS LYPYLEDIPD PEVNWIPCNN RNRFGQTPVQ ERLSCLAKNN SIYVVANIGD KKPCDTSDPQ CPPDGRYQYN TDVVFDSQGK LVARYHKQNL FMGENQFNVP KEPEIVTFNT TFGSFGIFTC FDILFHDPAV TLVKDFHVDT IVFPTAWMNV LPHLSAVEFH SAWAMGMRVN FLASNIHYPS KKMTGSGIYA PNSSRAFHYD MKTEEGKLLL SQLDSHPSHS AVVNWTSYAS SIEALSSGNK EFKGTVFFDE FTFVKLTGVA GNYTVCQKDL CCHLSYKMSE NIPNEVYALG AFDGLHTVEG RYYLQICTLL KCKTTNLNTC GDSAETASTR FEMFSLSGTF GTQYVFPEVL LSENQLAPGE FQVSTDGRLF SLKPTSGPVL TVTLFGRLYE KDWASNASSG.

Solubility

It is recommended to add deionized water to prepare a working stock solution of approximately 0.5mg/ml and let the lyophilized pellet dissolve completely. VNN1 is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.

Precautions

VNN1 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (O95497)