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Datasheet for ABIN1097775

VNN1 Protein (AA 22-490) (His tag)

Overview

Quantity:	50 µg
Target:	VNN1
Protein Characteristics:	AA 22-490
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This VNN1 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human Vascular Non-Inflammatory Molecule 1/Vanin-1/VNN1 (C-6His)
Sequence:	<p>QDTFTAAVYE HAAILPNATL TPVSREEALA LMNRNLDILE GAITSAADQG AHIIVTPEDA IYGWNFNRDS LYPYLEDIPN PEVNWIPCNN RNRFQGTPVQ ERLSCLAKNN SIYVVANIGD KKPCDTS DPQ CPPDGRYQYN TDVVFDSQ GK LVARYHKQNL FMGENQFNVP KEPEIVTFNT TFGSFGIFTC FDILFHDP AV TLVKDFHVD T IVFPTAWMNV LPHLSAVEFH SAWAMGMRVN FLASNIHYPS KKMTGSGIYA PNSSRAFHYD MKTEEGKLLL SQLDSHP SHS AVVNWTSYAS SIEALSSGNK EFKGT VFFDE FTFVKLTGVA GNYTVCQKDL CCHLSYKMSE NIPNEVYALG AFDGLHTVEG RYYLQICTLL KCKTTNLNTC GDSAETASTR FEMFSLSGTF GTQYVFPEVL LSENQLAPGE FQVSTDGRLF SLKPTSGPVL TVTLFGRLYE KDWASNASSV DHHHHHHH</p>
Characteristics:	Recombinant Human Vascular Non-Inflammatory Molecule 1/Vanin-1 produced by transfected human cells is a secreted protein with sequence (Gln22-Ser490) of Human VNN1 fused with a polyhistidine tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.

Product Details

Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

Target Details

Target:	VNN1
Alternative Name:	vanin-1 (VNN1 Products)
Sub Type:	Fusionprotein
Background:	<p>Vanin-1 is a cell membrane protein which contains one CN hydrolase domain and belongs to the CN hydrolase family and BTD/VNN subfamily. Vanin-1 is also a member of the Vanin family of proteins, which share extensive sequence similarity with each other, and also with biotinidase. The family includes secreted and membrane-associated proteins, a few of which have been reported to participate in hematopoietic cell trafficking. Vanin-1 is widely expressed with higher expression in spleen, kidney and blood and overexpressed in lesional psoriatic skin. No biotinidase activity has been demonstrated for any of the vanin proteins, however, they possess pantetheinase activity, which may play a role in oxidative-stress response. Vanin-1 is an epithelial pantetheinase that provides cysteamine to tissue and regulates response to stress. Vanin-1 is expressed by enterocytes, and its absence limits intestinal epithelial cell production of proinflammatory signals. Vanin-1 regulates late adhesion steps of thymus homing under physiological, noninflammatory conditions. The early impact of vanin-1 deficiency on tumor induction was directly correlated to the amount of inflammation and subsequent epithelial proliferation rather than cell death rate. Vanin-1 molecule was shown to be involved in the control of thymus reconstitution following sub-lethal irradiation. ReferencesC s pry, et al. Pantothenamides are potent, on-target inhibitors of Plasmodium falciparum growth when serum pantetheinase is inactivated.PMID: 23405100 [PubMed - in process] PMCID: PMC3566143http://www.ncbi.nlm.nih.gov/pubmed/23405100</p> <p>Alternative Names: Pantetheinase, Pantetheine Hydrolase, Tiff66, Vascular Non-Inflammatory Molecule 1, Vanin-1, VNN1</p>
Molecular Weight:	53.27 kDa
UniProt:	O95497
Pathways:	Negative Regulation of intrinsic apoptotic Signaling

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: It is not recommended to reconstitute to a concentration less than 100 µg/mL.
Dissolve the lyophilized protein in ddH₂O.
Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

Buffer: Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.2.

Handling Advice: Always centrifuge tubes before opening. Do not mix by vortex or pipetting.

Storage: 4 °C/-20 °C/-80 °C

Storage Comment: Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks.
Reconstituted protein solution can be stored at 4-7°C for 2-7 days.
Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Expiry Date: 3 months