Active Recombinant Human VNN2 Protein, Fc-tagged, Biotinylated

Cat. No. VNN2-01H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The recombinant human VNN2-Fc fusion is expressed as a 697 amino acid protein consisting of Gln23-Ser492 region of VNN2 (Uniprot Accession #O95498) and a C-terminal Fc from human IgG1, which exists as a dimer under non-reducing conditions, expressed in Human cells. Calculated PI: 6.34 Calculated Extinction Coefficient (M-1 cm-1, at 280nm): 107690
Species	Human
Source	Human Cells
ProteinLength	23-492
Description	This gene product is a member of the Vanin family of proteins that 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. 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. The encoded protein is a GPI-anchored cell surface molecule that plays a role in transendothelial migration of neutrophils. This gene lies in close proximity to, and in same transcriptional orientation as two other vanin genes on chromosome 6q23-q24. Alternatively spliced transcript variants encoding different isoforms have been described for this gene.

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Bio-activity	VNN2 hydrolyzes D-pantetheine and releases cysteamine.
Molecular Mass	78.7 kDa
AA Sequence	QDSFIAAVYEHAVILPNKTETPVSQEDALNLMNENIDILETAIKQAAEQGARIIVTPEDA LYGWKFTRETVFPYLEDIPDPQVNWIPCQDPHRFGHTPVQARLSCLAKDNSIYVLAN LGDKKPCNSRDSTCPPNGYFQYNTNVVYNTEGKLVARYHKYHLYSEPQFNVPEKP ELVTFNTAFGRFGIFTCFDIFFYDPGVTLVKDFHVDTILFPTAWMNVLPLLTAIEFHSA WAMGMGVNLLVANTHHVSLNMTGSGIYAPNGPKVYHYDMKTELGKLLLSEVDSHP LSSLAYPTAVNWNAYATTIKPFPVQKNTFRGFISRDGFNFTELFENAGNLTVCQKEL CCHLSYRMLQKEENEVYVLGAFTGLHGRRRREYWQVCTLLKCKTTNLTTCGRPVE TASTRFEMFSLSGTFGTEYVFPEVLLTEIHLSPGKFEVLKDGRLVNKNGSSGPILTVS LFGRWYTKDSLYSSTGTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVV VDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKE YKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPS DIAVEWESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHE ALHNHYTQKSLSLSPGK
Endotoxin	<0.10 EU/μg of purified recombinant protein determined by the LAL method
Purity	> 95% judged by SDS-PAGE under reducing condition.
Storage	Upon receipt, centrifuge the product briefly before opening the vial. It is recommended to store small aliquots at the temperature below –20 centigrade for long-term storage and the product is stable for 3 months. The undiluted protein can be stored at 4 centigrade for no more than 2 weeks. Use a manual defrost freezer and avoid repeated freeze-thaw cycles.
Concentration	0.5 mg/mL

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Storage Buffer	Sterile PBS pH7.4 (carrier and preservative free). The purified recombinant protein was labeled with Biotin (3-5 Biotin per molecule) using the standard procedure.
Shipping	The product is shipped at 4 centigrade for immediate use.
Conjugation	Biotin

GENE INFORMATION

Gene Name	VNN2 vanin 2 [Homo sapiens (human)]
Official Symbol	VNN2
Synonyms	VNN2; vanin 2; FOAP-4; GPI-80; vascular non-inflammatory molecule 2; Vannin 2; glycosylphosphatidyl inositol-anchored protein GPI-80; pantetheinase; EC 3.5.1.92
Gene ID	8875
mRNA Refseq	NM_078488
Protein Refseq	NP_511043
MIM	603571
UniProt ID	O95498

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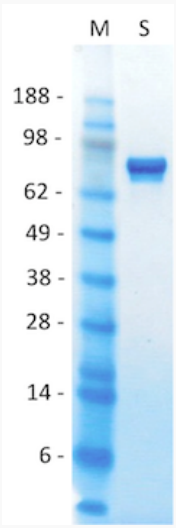

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