

## Active Recombinant Human VNN2 Protein (Extracellular Domain, Gln23-Ser492), C-Fc-tagged

**Cat. No.** VNN2-06H    **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.

Calculated PI: 6.34

Calculated Extinction Coefficient (M-1 cm-1, at 280nm): 107690

**Species**                      Human

**Source**                        Human Cells

**ProteinLength**              Gln23-Ser492

**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.

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Bio-activity</b>	VNN2 hydrolyzes D-pantetheine and releases cysteamine.
<b>Molecular Mass</b>	Calculated molecular mass (kDa): 78.7 Estimated by SDS-PAGE under reducing condition (kDa): 80-85
<b>AA Sequence</b>	<p>QDSFIAAVYEHAVILPNKTETPVSQEDALNLMNENIDILETAIKQAAEQGARIIVTPEDA          LYGWKFTRETVPYLEDIPDPQVNWIPCQDPHRFGHTPVQARLSCLAKDNSIYVLAN          LGDKKPCNSRDSTCPPNGYFQYNTNVVYNTGKLVARYHKYHLYSEPQFNVPEKP          ELVTFNTAFGRFGIFTCFDIFFYDPGVTLVKDFHVDLILFPTAWMNVLPLLLTAIEFHSA          WAMGMGVNLLVANHHVSLNMTGSGIYAPNGPKVYHYDMKTELKLLLSEVDSHP          LSSLAYPTAVNWNAYATTIKPFPVQKNTFRGFISRDGFNFTELFENAGNLTVCQKEL          CCHLSYRMLQKEENEVYVVGAFGLHGRRRREYWQVCTLLKCKTTNLTTGRPVE          TASTRFEMFSLSGTFGTEYVFPEVLLTEIHLSPGKFEVLKDGRLVNKNGSSGPILTVS          LFGRWYTKDSLYSSTGHTHTCPPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVV          VDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKE          YKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPS          DIAVEWESNGQPENNYKTTTPVLDSGDSFFLYSKLTVDKSRWQQGNVVFSCSVMHE          ALHNHYTQKSLSLSPGK</p>
<b>Endotoxin</b>	<0.1 EU/μg of purified recombinant protein determined by the LAL method
<b>Purity</b>	>95% judged by SDS-PAGE under reducing condition
<b>Storage</b>	The product is shipped at 4 centigrade. Upon receipt, centrifuge the vial briefly before opening. Store at -20 centigrade and the product is stable for 6 months. Avoid repeated freeze-thaw cycles.
<b>Concentration</b>	0.5 mg/mL
<b>Storage Buffer</b>	Sterile PBS pH7.4

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**Shipping**

The product is shipped at 4 centigrade for immediate use.

**GENE INFORMATION****Gene Name**VNN2 vanin 2 [ *Homo sapiens* (human) ]**Official Symbol**

VNN2

**Synonyms**

VNN2; vanin 2; FOAP-4; GPI-80; pantetheine hydrolase VNN2; Vannin 2; glycosylphosphatidyl inositol-anchored protein GPI-80; pantetheinase; vascular non-inflammatory molecule 2; EC 3.5.1.92

**Gene ID**

8875

**mRNA Refseq**

NM\_078488

**Protein Refseq**



NP\_511043

**MIM**

603571

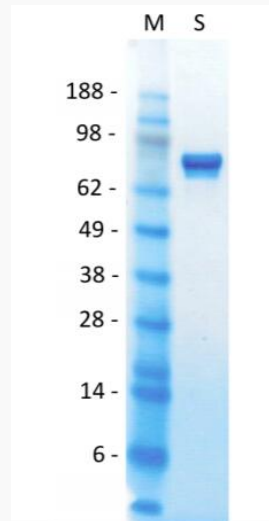
**UniProt ID**

Q95498

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SDS-PAGE



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