

## 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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|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Bio-activity</b>   | VNN2 hydrolyzes D-pantetheine and releases cysteamine.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Molecular Mass</b> | 78.7 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>AA Sequence</b>    | <p>QDSFIAAVYEHAVILPNKTETPVSQEDALNLMNENIDILETAIKQAAEQGARIIVTPEDA<br/> LYGWKFTRETVPYLEDIPDPQVNWIPCQDPHRFGHTPVQARLSCLAKDNSIYVLAN<br/> LGDKKPCNSRDSTCPPNGYFQYNTNVVYNTGKLVARYHKYHLYSEPQFNVPEKP<br/> ELVTFNTAFGRFGIFTCFDIFFYDPGVTLVKDFHVDILFPTAWMNVLP LLTAIEFHSA<br/> WAMGMGVNLLVANTHHVSLNMTGSGIYAPNGPKVYHYDMKTELGKLLLSEVDSHP<br/> LSSLAYPTAVNWNAYATTIKPFPVQKNTFRGFISRDGFNFTELFENAGNLTVCQKEL<br/> CCHLSYRMLQKEENEVYVLGAFTGLHGRRRREYWQVCTLLKCKTTNLTTCGRPVE<br/> TASTRFEMFSLSGTFGTEYVFPEVLLTEIHLSPGKFEVLKDGRLVNKNKGSSGPILTVS<br/> LFGRWYTKDSLYSSTGTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVV<br/> VDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKE<br/> YKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPS<br/> DIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFCFSVMHE<br/> ALHNHYTQKSLSLSPGK</p> |
| <b>Endotoxin</b>      | <0.10 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>        | <p>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.</p> <p>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</p>                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Concentration</b>  | 0.5 mg/mL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

|                       |                                                                                                                                                                     |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage Buffer</b> | 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. |
| <b>Shipping</b>       | The product is shipped at 4 centigrade for immediate use.                                                                                                           |
| <b>Conjugation</b>    | Biotin                                                                                                                                                              |

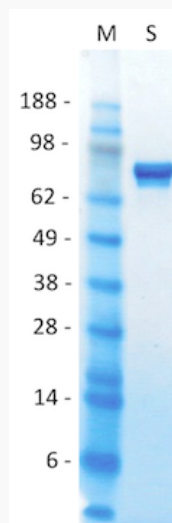
## GENE INFORMATION

|                        |                                                                                                                                                                  |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | VNN2 vanin 2 [ Homo sapiens (human) ]                                                                                                                            |
| <b>Official Symbol</b> | VNN2                                                                                                                                                             |
| <b>Synonyms</b>        | 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 |
| <b>Gene ID</b>         | 8875                                                                                                                                                             |
| <b>mRNA Refseq</b>     | NM_078488                                                                                                                                                        |
| <b>Protein Refseq</b>  | NP_511043                                                                                                                                                        |
| <b>MIM</b>             | 603571                                                                                                                                                           |
| <b>UniProt ID</b>      | O95498                                                                                                                                                           |

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