

## VNN2/Vanin-2 Protein, Human (470a.a, HEK293, His)

<b>Cat. No.:</b>	HY-P71045
<b>Synonyms:</b>	Vascular Non-Inflammatory Molecule 2; Vanin-2; Glycosylphosphatidyl Inositol-Anchored Protein GPI-80; Protein FOAP-4; VNN2
<b>Species:</b>	Human
<b>Source:</b>	HEK293
<b>Accession:</b>	O95498 (Q23-S492)
<b>Gene ID:</b>	8875
<b>Molecular Weight:</b>	Approximately 68.0 kDa

### PROPERTIES

#### AA Sequence

Q D S F I A A V Y E	H A V I L P N K T E	T P V S Q E D A L N	L M N E N I D I L E
T A I K Q A A E Q G	A R I I V T P E D A	L Y G W K F T R E T	V F P Y L E D I P D
P Q V N W I P C Q D	P H R F G H T P V Q	A R L S C L A K D N	S I Y V L A N L G D
K K P C N S R D S T	C P P N G Y F Q Y N	T N V V Y N T E G K	L V A R Y H K Y H L
Y S E P Q F N V P E	K P E L V T F N T A	F G R F G I F T C F	D I F F Y D P G V T
L V K D F H V D T I	L F P T A W M N V L	P L L T A I E F H S	A W A M G M G V N L
L V A N T H H V S L	N M T G S G I Y A P	N G P K V Y H Y D M	K T E L G K L L L S
E V D S H P L S S L	A Y P T A V N W N A	Y A T T I K P F P V	Q K N T F R G F I S
R D G F N F T E L F	E N A G N L T V C Q	K E L C C H L S Y R	M L Q K E E N E V Y
V L G A F T G L H G	R R R R E Y W Q V C	T L L K C K T T N L	T T C G R P V E T A
S T R F E M F S L S	G T F G T E Y V F P	E V L L T E I H L S	P G K F E V L K D G
R L V N K N G S S G	P I L T V S L F G R	W Y T K D S L Y S S	

**Appearance** Lyophilized powder.

**Formulation** Lyophilized from a 0.2 µm filtered solution of 20 mM Tris-HCl, 150 mM NaCl, pH 7.5.

**Endotoxin Level** <1 EU/µg, determined by LAL method.

**Reconstitution** It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH<sub>2</sub>O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).

**Storage & Stability** Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.

**Shipping** Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

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**Background**

Vanin-2 (VNN2) is an amidohydrolase that specifically hydrolyzes one of the carboamide linkages in D-pantetheine, playing a crucial role in the recycling of pantothenic acid (vitamin B5) and releasing cysteamine. Beyond its role in vitamin metabolism, VNN2 is involved in the thymus homing of bone marrow cells. Additionally, it may play a regulatory role in beta-2 integrin-mediated processes, influencing cell adhesion, migration, and the motility of neutrophils.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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