

# Mouse VNN1 Protein

Cat. No. VNN-MM101

## Description

<b>Source</b>	Recombinant Mouse VNN1 Protein is expressed from HEK293 with His tag at the C-terminus. It contains Leu24-Asn488.
<b>Accession</b>	Q9Z0K8
<b>Molecular Weight</b>	The protein has a predicted MW of 53.14 kDa. Due to glycosylation, the protein migrates to 55-70 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1EU per $\mu\text{g}$ by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

## Formulation and Storage

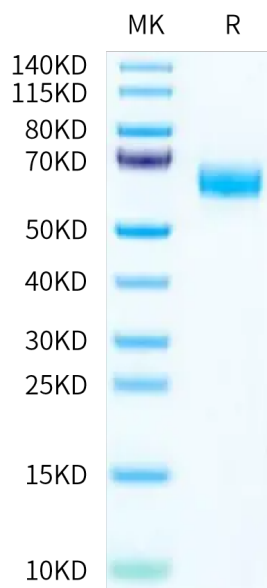
<b>Formulation</b>	Lyophilized from 0.22 $\mu\text{m}$ filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

Vanin-1 (VNN1) is anchored to the cellular membrane with pantetheinase activity, which hydrolyzes pantetheine to produce cysteamine. VNN1 can promote oxidative stress and the inflammatory response. Additionally, VNN1 has been confirmed to be overexpressed in cancer tissues of patients with PCAD and can be used as a blood biomarker for the discrimination of PCAD from type 2 diabetes.

## Assay Data

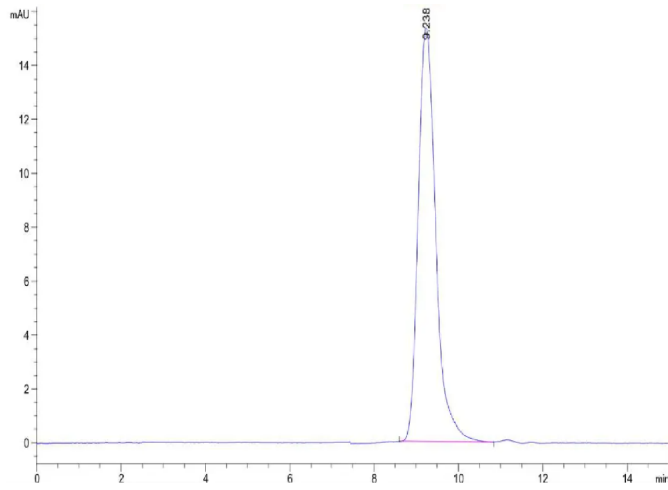
### Bis-Tris PAGE



Mouse VNN1 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC

Assay Data



The purity of Mouse VNN1 is greater than 95% as determined by SEC-HPLC.