



Recombinant Protein Technical Manual

Recombinant Human HAI/SPINT1 Protein (His Tag)(Active)
RPES0877

Product Data:

Product SKU: RPES0877

Size: 10µg

Species: Human

Expression host: HEK293 Cells

Uniprot: O43278-2

Protein Information:

Molecular Mass: 45.8 kDa

AP Molecular Mass: 55 kDa

Tag: C-His

Bio-activity: Measured by its ability to inhibit trypsin cleavage of a fluorogenic peptide substrate, Mca-RPKPVE-Nval-WRK(Dnp)-NH₂ (R&D Systems, Catalog # ES002). IC₅₀ value is < 2nM.

Purity: > 96 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg of the protein as determined by the LAL method.

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from sterile PBS, pH 7.4

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: HAI;HAI1;MANSC2;SPINT1;UNQ223/PRO256

Immunogen Information:

Sequence: Met 1-Val 433

Background:

Vascular non-inflammatory molecule 2, also known as glycosyl-phosphatidyl inositol-anchored protein GPI-80, Vanin-2, Protein FOAP-4 and VNN2, is a cell membrane protein which belongs to the CN hydrolase family and Vanin subfamily. VNN2 is widely expressed with higher expression in spleen and blood. VNN2 is a member of the vanin family of proteins which 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. VNN2 is an amidohydrolase that hydrolyzes specifically one of the carboamide linkages in D-pantetheine thus recycling pantothenic acid (vitamin B5) and releasing cysteamine. It is involved in the thymus homing of bone marrow cells. VNN2 plays a role in transendothelial migration of neutrophils and may regulate beta-2 integrin-mediated cell adhesion, migration and motility of neutrophil.