

32-13505: VNN1 Human

Alternative Name : Vanin 1, Vascular Non-Inflammatory Molecule 1, Pantetheine Hydrolase, EC 3.5.1.92, Vanin-1, HDLCQ8, Tiff66, Pantetheinase, Vannin 1, EC 3.5.1, VNN1.

Description

Source: Escherichia Coli.

Filtered White lyophilized (freeze-dried) powder.

Vanin 1 (VNN1) belongs to the vanin family of proteins, which share extensive sequence similarity with each other, and also with biotinidase. This family includes secreted and membrane-associated proteins, a few of which have been described to participate in hematopoietic cell trafficking. No biotinidase activity has been established for any of the vanin proteins; nevertheless, they possess pantetheinase activity, which may have a role in oxidative-stress response. VNN1 protein, like its mouse homolog, is probably a GPI-anchored cell surface molecule. The mouse VNN1 protein is expressed by the perivascular thymic stromal cells and regulates migration of T-cell progenitors to the thymus. VNN1 is an amidohydrolase which hydrolyzes specifically one of the carboamide linkages in D-pantetheine thus recycling pantothenic acid (vitamin B5).

VNN1 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain (Gln22-Gly491) containing 480 amino acids including a 10 aa His tag at N-terminus. The total calculated molecular mass is 53.5kDa.

Product Info

Amount : 2 µg / 10 µg

Purification : Greater than 95.0% as determined by SDS-PAGE.

VNN1 was filtered (0.4 µm) and lyophilized in 20mM Tris buffer, 50mM NaCl and 0.1% amisoft CS-22, pH 7.5.

Content : It is recommended to add deionized water to prepare a working stock solution of approximately 0.5mg/ml and let the lyophilized pellet dissolve completely. VNN1 is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.

Storage condition : Store lyophilized protein at -20°C. Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after two weeks at 4°C.

Amino Acid : MKHHHHHHASQDTFTAAYVE HAAILPNATL TPVSREEALA LMNRNLDILE GAITSAADQG
AHIIVTPEDA IYGWNFNDRS LYPYLEDIPD PEVNWIPCNN RNRFGQTPVQ ERLSCLAKNN
SIYVVANIGD KKPCDTS DPQ CPPDGRYQYN TDVVFDSQ GK LVARYHKQNL FMGENQFNVP
KEPEIVTFNT TFGSFGIFTC FDILFHDP AV TLVKDFHVDT IVFPTAWMNV LPHLSAVEFH
SAWAMGMRVN FLASNIHYP S KKMTGSGIYA PNSSRAFHYD MKTEEGKLLL SQLD SHPSHS
AVVNWTSYAS SIEALSSGNK EFKGT VFFDE FTFVKLTGVA GNYTVCQKDL CCHLSYKMSE
NIPNEVYALG AFDGLHTVEG RYYLQICTLL KCKTTNLNTC GDSAETASTR FEMFSLSGTF
GTQYVFPEVL LSENQLAPGE FQVSTDGRLF SLKPTSGPVL TVTLFGRLYE KD WASNASSG.