

32-7498: Recombinant Human Vascular Non-Inflammatory Molecule 1/Vanin-1/VNN1 (C-6His)

Gene : VNN1
Gene ID : 8876
Uniprot ID : O95497

Description

Source: Human Cells.
MW :53.27kD.

Recombinant Human Vascular Non-Inflammatory Molecule 1 is produced by our Mammalian expression system and the target gene encoding Gln22-Ser490 is expressed with a 6His tag at the C-terminus. Vanin-1 is a cell membrane protein which contains one CN hydrolase domain and belongs to the CN hydrolase family and BTD/VNN subfamily. Vanin-1 is also 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. Vanin-1 is widely expressed with higher expression in spleen, kidney and blood and overexpressed in lesional psoriatic skin. 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. Vanin-1 is an epithelial pantetheinase that provides cysteamine to tissue and regulates response to stress. Vanin-1 is expressed by enterocytes, and its absence limits intestinal epithelial cell production of proinflammatory signals. Vanin-1 regulates late adhesion steps of thymus homing under physiological, noninflammatory conditions. The early impact of vanin-1 deficiency on tumor induction was directly correlated to the amount of inflammation and subsequent epithelial proliferation rather than cell death rate. Vanin-1 molecule was shown to be involved in the control of thymus reconstitution following sub-lethal irradiation.

Product Info

Amount : 10 µg / 50 µg
Content : Lyophilized from a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, pH 7.2.
Storage condition : Lyophilized protein should be stored at -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at -20°C for 3 months.
Amino Acid : QDTFTAAYEHAAILPNATLTPVSREEALALMNRNLDILEGAITSAADQGAHIIVTPEDAIYGWNFNDRDSLYPELE
DIPNPEVNWIPCNNRNRFGQTPVQERLSCLAKNNSIYVVANIGDKKPCDTSDPQCPPDGRYQYNTDVVFDSSQ
KLVARYHKQNLFMGENQFNVPKEIVTFNTTFGSFGIFTCFDILFHDPVAVTLVKDFHVDIVFPTAWMNVLP
SAVEFHSAWAMGMRVNFASNIHYPSKMTGSGIYAPNSSRAFYDMKTEEGKLLLSQLDSSHSAVVNWT
SYASSIEALSSGNKEFKGTVFFDEFTFVKLTGVAGNYTVCQKDLCCCHLSYKMSNIPNEVYALGAFDGLHTVEG
RYYLQICTLLKCKTTNLTGCGDASAETASTRFEMFSLSGTFGTQYVFPEVLLSENQLAPGEFQVSTDGRLFSKPT
SGPVLTVTFLGRLYEKDWASNASSVDHHHHHH

Application Note

Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in ddH₂O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

Endotoxin : Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.