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Vaspin

Catalog # PVGS1432

Product Information

Primary Accession	Q8IW75
Species	Human
Sequence	Leu21-Lys414
Purity	> 95% as analyzed by SDS-PAGE > 95% as analyzed by HPLC
Endotoxin Level	
Expression System	E. coli
Formulation	Lyophilized after extensive dialysis against PBS.
Reconstitution	It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in ddH_2O up to 100 □g/ml.
Storage & Stability	Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

Additional Information

Gene ID	145264
Other Names	Serpin A12, OL-64, Visceral adipose tissue-derived serine protease inhibitor, Vaspin, Visceral adipose-specific serpin, SERPINA12
Target Background	Vaspin is a cytokine originally identified in visceral adipose tissue of Otsuka Long-Evans Tokushima fatty rats, and the name “Vaspin” is short for visceral adipose tissue-derived serine protease inhibitor. Besides the visceral adipose, Vaspin is also expressed in the skin, hypothalamus, pancreatic islets and stomach, and is shown to exert an anti-inflammatory role by inhibiting several proinflammatory adipokines such as leptin, resistin, and Tumor Necrosis Factor-α. Vaspin also stimulates adiponectin expression and improves insulin sensitivity in mice. Vaspin expression has been shown to decrease with worsening of diabetes and body weight loss. Accordingly, administration of recombinant human Vaspin improved glucose tolerance in diet regulated mice suggesting it as a potential target for obese-related diseases.

Protein Information

Name	SERPINA12
Function	Adipokine that modulates insulin action by specifically inhibiting its target protease KLK7 in white adipose tissues.
Cellular Location	Secreted.
Tissue Location	Expressed in visceral adipose tissues.