Recombinant SPA12 protein (His tag)

Catalog Number	543085
Synonyms	OL-64; Visceral adipose tissue-derived serine protease inhibitor; Vaspin; Visceral adipose-specific serpin
Species	Human
Expression System	E. coli
Accession	Q8IW75
Molecular Weight	Predictes a molecular mass of 45.18 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 45 kDa band.

Product Information

Sequence Region	35-414
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>90%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Endotoxin	Not tested.
Activity	Not tested.
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Protein Construction	DNA encoding 35-414 aa (Q8IW75) were fused with 6His tag.

Storage & Handling

Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

Description

Description	Introducing the recombinant Serpin A12 (Vaspin) fragment (residues 35-414), a 380-amino acid segment derived from human SERPINA12. This fragment is engineered for stability and solubility, making it an ideal tool for investigating the insulin-modulating adipokine's structural and biochemical properties in research applications. Serpin A12, also known as Vaspin (Visceral adipose tissue-derived serine protease inhibitor), is a secreted adipokine that plays a key role in modulating insulin action by specifically inhibiting its target protease KLK7 in white adipose tissues. As a visceral adipose-specific serpin, it is involved in metabolic regulation and has been implicated in insulin sensitivity pathways, with studies highlighting its potential relevance in metabolic disorders. The protein is naturally secreted, supporting its function as a circulating signaling molecule in energy homeostasis.