Recombinant VSTM4 protein (His tag)

Catalog Number	545379
Species	Human
Expression System	E. coli
Accession	Q8IW00
Molecular Weight	Predictes a molecular mass of 20.00 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 20 kDa band.

Product Information

Sequence Region	24-180
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>87%, 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 24-180 aa (Q8IW00) 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	Recombinant Human VSTM4 (V-set and transmembrane domain-containing protein 4) Fragment (aa 24-180) - A high-purity protein fragment specifically designed to encompass the complete Ig-like domain of VSTM4, ideal for studying calcium channel modulation in retinal photoreceptors. The full-length VSTM4 protein is a single-pass type I membrane protein localized to the cell membrane. Its cleaved product, Peptide Lv, functions as a secreted peptide that enhances L-type voltage-gated calcium channel (L-VGCC) currents in retinal photoreceptors. This calcium channel modulation plays a crucial role in photoreceptor function and visual signal transduction. The recombinant fragment provided (aa 24-180) contains the complete Ig-like domain (aa 24-155), making it an excellent tool for investigating the structural and functional properties of this calcium channel-regulating domain without the transmembrane region.