Recombinant VISL1 protein (His tag)

Catalog Number	542474
Synonyms	VILIP; VLP-1; Hippocalcin-like protein 3; HLP3
Species	Human
Expression System	E. coli
Accession	P62760
Molecular Weight	Predictes a molecular mass of 23.67 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 26 kDa band.

Product Information

Sequence Region	2-191
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>89%, 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 2-191 aa (P62760) 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 Visinin-like protein 1 (VILIP) fragment (amino acids 2-191) is a high-purity protein designed for studying calcium-dependent regulation of rhodopsin phosphorylation. This fragment fully encompasses the EF-hand domains 1-4, making it an ideal tool for investigating domain-specific functions in signal transduction pathways. Visinin-like protein 1 (VILIP), also known as VLP-1 or Hippocalcin-like protein 3 (HLP3), is encoded by the VSNL1 gene in humans. The protein functions as a calcium sensor that regulates rhodopsin phosphorylation in vitro in a calcium-dependent manner. This calcium-mediated regulatory activity suggests VILIP-1 plays important roles in visual signal transduction and calcium-dependent signaling pathways. The recombinant fragment (2-191) preserves the complete EF-hand calcium-binding domains, enabling researchers to study the molecular mechanisms underlying VILIP-1's calcium-dependent regulatory functions.