Recombinant CLVS1 protein (His tag)

Catalog Number	547670
Synonyms	Cellular retinaldehyde-binding protein-like; Retinaldehyde-binding protein 1-like 1; clathrin vesicle-associated Sec14 protein 1
Species	Human
Expression System	E. coli
Accession	Q8IUQ0
Molecular Weight	Predictes a molecular mass of 35.43 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 35 kDa band.

Product Information

Sequence Region	1-292
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 1-292 aa (Q8IUQ0) 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 Clavesin-1 (CLVS1) fragment (residues 1-292) from Homo sapiens, encompassing the complete CRAL-TRIO functional domain. This high-purity protein is an essential tool for investigating neuronal endosomal-lysosomal morphology and phosphatidylinositol 3,5-bisphosphate binding mechanisms in cellular studies. Clavesin-1, also known as retinaldehyde-binding protein 1-like 1 or clathrin vesicle-associated Sec14 protein 1, is critical for maintaining normal morphology of late endosomes and/or lysosomes in neuronal cells. The protein demonstrates specific binding affinity for phosphatidylinositol 3,5-bisphosphate (PtdIns(3,5)P2), indicating its role in phosphoinositide-mediated cellular signaling. Subcellular localization studies show Clavesin-1 associates with multiple membrane compartments including the trans-Golgi network membrane, clathrin-coated vesicles, and early endosome membranes as a peripheral membrane protein, highlighting its involvement in intracellular trafficking and membrane dynamics.