Recombinant EPN4 protein (His tag)

Catalog Number	544990
Synonyms	Clathrin-interacting protein localized in the trans-Golgi region; Clint; Enthoprotin; Epsin-4; Epsin-related protein; EpsinR
Species	Human
Expression System	E. coli
Accession	Q14677
Molecular Weight	Predictes a molecular mass of 20.52 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 22 kDa band.

Product Information

Sequence Region	1-158
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>86%, 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 1-158 aa (Q14677) 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 human Clathrin interactor 1 (CLINT1) fragment (amino acids 1-158), a high-purity protein designed to encompass the complete ENTH domain. This fragment serves as an essential tool for investigating clathrin-mediated vesicular transport mechanisms, phosphatidylinositol binding, and intracellular trafficking processes in the trans-Golgi network and endosomal pathways. Clathrin interactor 1 (CLINT1), also known as EpsinR or Enthoprotin, is a peripheral membrane protein that binds to membranes enriched in phosphatidylinositol 4,5-bisphosphate (PtdIns(4,5)P2). It plays a critical role in clathrin-coated vesicle transport from the trans-Golgi network to endosomes and stimulates clathrin assembly. The protein is localized throughout the cytoplasm, concentrated in the perinuclear region, and associated with clathrin-coated vesicles near the trans-Golgi network, but is notably absent from the cell surface. This specific localization pattern underscores its specialized function in intracellular vesicular transport rather than plasma membrane processes.