Recombinant AP4E1 protein (His tag)

Catalog Number	546253
Synonyms	AP-4 adaptor complex subunit epsilon; Adaptor-related protein complex 4 subunit epsilon-1; Epsilon subunit of AP-4; Epsilon-adaptin
Species	Human
Expression System	E. coli
Accession	Q9UPM8
Molecular Weight	Predictes a molecular mass of 26.86 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 27 kDa band.

Product Information

Sequence Region	914-1137
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 914-1137 aa (Q9UPM8) 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 AP-4 complex subunit epsilon-1 fragment (residues 914-1137) from Homo sapiens, designed for structural and functional studies. This 224-amino acid fragment offers a stable, soluble unit ideal for investigating the role of the AP-4 adaptor complex in intracellular protein trafficking and vesicle formation. AP-4 complex subunit epsilon-1 is a key component of the adaptor protein complex 4 (AP-4), which functions as a vesicle coat protein involved in cargo selection and vesicle formation. The complex operates in the trans-Golgi network (TGN), facilitating transport to the endosomal-lysosomal system and contributing to protein sorting in epithelial cells and neurons. It recognizes tyrosine-based sorting signals on cargos, enabling proper cellular localization. The protein is localized to the trans-Golgi network membrane as a peripheral membrane protein, underscoring its role in intracellular trafficking pathways.