Recombinant AP1B1 protein (His tag)

Catalog Number	544875
Synonyms	Adaptor protein complex AP-1 subunit beta-1; Adaptor-related protein complex 1 subunit beta-1; Beta-1-adaptin; Beta-adaptin 1; Clathrin assembly protein complex 1 beta large chain; Golgi adaptor HA1/AP1 adaptin beta subunit
Species	Human
Expression System	E. coli
Accession	Q10567
Molecular Weight	Predictes a molecular mass of 27.76 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 28 kDa band.

Product Information

Sequence Region	716-949
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>90%, 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 716-949 aa (Q10567) 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-1 complex subunit beta-1 fragment (residues 716-949) from Homo sapiens, optimized for structural and biochemical studies. This soluble, stable protein fragment supports research into clathrin-mediated protein sorting mechanisms in the Golgi and endosomal pathways. The full-length AP-1 complex subunit beta-1 is a key component of the clathrin-associated adaptor protein complex 1, which facilitates protein sorting in the late Golgi/trans-Golgi network (TGN) and endosomes. It mediates clathrin recruitment to membranes and recognizes sorting signals in transmembrane cargo molecules. The protein localizes to the Golgi apparatus and clathrin-coated vesicle membranes, where it functions as part of the cytoplasmic coat complex. This fragment represents a computationally selected stable region ideal for investigating AP-1's structural and functional properties.