Recombinant AP3D1 protein (His tag)

Catalog Number	539417
Synonyms	AP-3 complex subunit delta; Adaptor-related protein complex 3 subunit delta-1; Delta-adaptin
Species	Human
Expression System	E. coli
Accession	O14617
Molecular Weight	Predictes a molecular mass of 27.28 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 27 kDa band.

Product Information

Sequence Region	920-1153
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 920-1153 aa (O14617) 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-3 complex subunit delta-1 fragment (amino acids 920-1153) from Homo sapiens, designed for structural and biochemical studies. This 234-amino acid fragment represents a stable, soluble region of the protein, ideal for investigating the role of the AP-3 complex in intracellular trafficking and vesicle formation. The full-length AP-3 complex subunit delta-1 is a key component of the AP-3 complex, an adaptor-related complex involved in vesicle budding from the Golgi membrane. It facilitates trafficking to lysosomes and plays a critical role in CD8+ T-cell and NK cell degranulation. In neurons, in concert with the BLOC-1 complex, AP-3 targets cargos into vesicles for delivery to neurites and nerve terminals. The protein is localized to the cytoplasm and the Golgi apparatus membrane, where it functions as a peripheral membrane protein on the cytoplasmic side.