Recombinant BLTP1 protein (His tag)

Catalog Number	540395
Synonyms	Fragile site-associated protein
Species	Human
Expression System	E. coli
Accession	Q2LD37
Molecular Weight	Predictes a molecular mass of 57.36 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 58 kDa band.

Product Information

Sequence Region	196-677
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 196-677 aa (Q2LD37) 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 human Bridge-like lipid transfer protein family member 1 (BLTP1) fragment (residues 196-677) is a high-quality protein designed for structural and functional studies. This 482-amino acid fragment represents a stable, soluble region ideal for investigating BLTP1's roles in lipid transport, endosomal trafficking, and cytoskeletal dynamics. Bridge-like lipid transfer protein family member 1 (BLTP1), also known as Fragile site-associated protein, is a tube-forming lipid transport protein that provides phosphatidylethanolamine for glycosylphosphatidylinositol (GPI) anchor synthesis in the endoplasmic reticulum. It plays crucial roles in endosomal trafficking, endosome recycling, actin cytoskeleton dynamics, cilia structural organization, and phagocytosis regulation. BLTP1 localizes to multiple cellular membranes including the cell membrane, endoplasmic reticulum membrane, and mitochondrial membrane, functioning at membrane contact sites between endoplasmic reticulum and both cell membrane and mitochondria.