Recombinant DNLZ protein (His tag)

Catalog Number	545148
Synonyms	Hsp70-escort protein 1; HEP1; mtHsp70-escort protein
Species	Human
Expression System	E. coli
Accession	Q5SXM8
Molecular Weight	Predictes a molecular mass of 10.19 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 10 kDa band.

Product Information

Sequence Region	64-139
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>85%, 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 64-139 aa (Q5SXM8) 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 DNL-type zinc finger protein (HEP1) fragment (residues 64-139) from Homo sapiens, designed for structural and biochemical studies. This 76-amino acid fragment represents a stable, soluble unit of the co-chaperone HEP1, optimized for experimental applications. The full-length DNL-type zinc finger protein, also known as Hsp70-escort protein 1 (HEP1), functions as a co-chaperone for HSPA9/mortalin. It prevents self-aggregation of HSPA9, ensuring proper folding and function of this mitochondrial Hsp70 protein. HEP1 is localized to the mitochondrion, where it supports mitochondrial protein homeostasis and quality control mechanisms.