Recombinant LYRM7 protein (His tag)

Catalog Number	540480
Synonyms	LYR motif-containing protein 7
Species	Human
Expression System	E. coli
Accession	Q5U5X0
Molecular Weight	Predictes a molecular mass of 13.61 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 14 kDa band.

Product Information

Sequence Region	1-104
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 1-104 aa (Q5U5X0) 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 LYRM7 (1-104) is a high-quality protein fragment derived from human Complex III assembly factor LYRM7, designed for structural and biochemical studies. This stable and soluble unit represents a key functional region, ideal for investigating mitochondrial complex assembly mechanisms. LYRM7 (LYR motif-containing protein 7) is a mitochondrial matrix protein essential for the assembly of the cytochrome b-c1 complex (Complex III) in the respiratory chain. It functions as a chaperone by binding to the Rieske Fe-S protein UQCRFS1, stabilizing it in the matrix prior to its integration into the late CIII dimeric intermediate in the inner mitochondrial membrane. This role highlights LYRM7's critical contribution to mitochondrial electron transport and cellular energy production.