Recombinant ETFR1 protein (His tag)

Catalog Number	548720
Synonyms	LYR motif-containing protein 5
Species	Human
Expression System	E. coli
Accession	Q6IPR1
Molecular Weight	Predictes a molecular mass of 12.52 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 13 kDa band.

Product Information

Sequence Region	1-90
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 1-90 aa (Q6IPR1) 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 Electron Transfer Flavoprotein Regulatory Factor 1 (ETFRF1) Fragment (1-90) is a soluble, stable protein fragment designed for structural and functional studies. This product represents a key regulatory domain involved in modulating electron transfer flavoprotein activity, offering researchers a reliable tool for biochemical and biophysical analyses. Electron Transfer Flavoprotein Regulatory Factor 1 (ETFRF1), also known as LYR motif-containing protein 5, functions as a critical regulator of the electron transfer flavoprotein (ETF) complex. It promotes the removal of flavin from the ETF holoenzyme, which is composed of ETFA and ETFB subunits, thereby playing an essential role in mitochondrial electron transport and energy metabolism. The protein is localized to the mitochondrion, where it contributes to cellular respiratory processes. This specific fragment (amino acids 1-90) encompasses a stable structural domain selected for its suitability in experimental applications.