Recombinant ETFA protein (His tag)

Catalog Number	536414
Synonyms	Alpha-ETF
Species	Caenorhabditis elegans
Expression System	E. coli
Accession	Q93615
Gene ID	172535
Molecular Weight	Predictes a molecular mass of 36.11 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 36 kDa band.

Product Information

Sequence Region	1-332
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 1-332 aa (Q93615) 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 Alpha-ETF (Probable electron transfer flavoprotein subunit alpha, mitochondrial) fragment (residues 1-332) from Caenorhabditis elegans, designed for structural and biochemical studies. This stable, soluble fragment supports research on mitochondrial electron transfer mechanisms. The full-length Alpha-ETF functions as a specific electron acceptor for dehydrogenases, including acyl-CoA, glutaryl-CoA, and sarcosine dehydrogenases, transferring electrons to the mitochondrial respiratory chain via ETF-ubiquinone oxidoreductase. It is localized in the mitochondrial matrix, playing a critical role in cellular energy metabolism by facilitating electron flow in oxidation-reduction processes.