Recombinant ECHM protein (His tag)

Catalog Number	534996
Species	Caenorhabditis elegans
Expression System	E. coli
Accession	P34559
Gene ID	176376
Molecular Weight	Predictes a molecular mass of 32.83 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 33 kDa band.

Product Information

Sequence Region	1-288
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>87%, 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 1-288 aa (P34559) 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	This product is a recombinant protein fragment of Probable enoyl-CoA hydratase, mitochondrial (EC 4.2.1.17) from Caenorhabditis elegans, encompassing amino acids 1-288. It is designed as a stable and soluble unit, ideal for structural studies, enzymatic assays, and functional investigations in mitochondrial metabolism research. The full-length Probable enoyl-CoA hydratase, mitochondrial (encoded by the ech-6 gene) is localized to the mitochondrial matrix, as indicated by its subcellular location. Enoyl-CoA hydratases are enzymes involved in fatty acid beta-oxidation pathways, catalyzing the hydration of enoyl-CoA intermediates. This mitochondrial form plays a critical role in energy production and lipid metabolism, making it significant for studies in cellular bioenergetics and metabolic disorders.