Recombinant ECHH protein (His tag)

Catalog Number	534986
Synonyms	Hydroxyacyl-CoA dehydrogenase trifunctional multienzyme complex subunit beta 1
Species	Caenorhabditis elegans
Expression System	E. coli
Accession	P34255
Gene ID	176216
Molecular Weight	Predictes a molecular mass of 49.53 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 50 kDa band.

Product Information

Sequence Region	1-448
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 1-448 aa (P34255) 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 Probable 3-ketoacyl-CoA thiolase (EC 2.3.1.16) fragment from Caenorhabditis elegans, encompassing residues 1-448. This stable and soluble fragment is ideal for structural studies and biochemical assays, offering researchers a reliable tool to investigate mitochondrial beta-oxidation pathways. The full-length Probable 3-ketoacyl-CoA thiolase, encoded by the hadb-1 gene, is a mitochondrial enzyme that catalyzes essential reactions in the mitochondrial beta-oxidation pathway, playing a critical role in fatty acid metabolism. As a subunit of the hydroxyacyl-CoA dehydrogenase trifunctional multienzyme complex, it contributes to energy production and metabolic homeostasis, with its mitochondrial localization underscoring its importance in cellular energy regulation.