Recombinant ECHD2 protein (His tag)

Catalog Number	550947
Species	Human
Expression System	E. coli
Accession	Q86YB7
Molecular Weight	Predictes a molecular mass of 29.01 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 29 kDa band.

Product Information

Sequence Region	36-292
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>86%, 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 36-292 aa (Q86YB7) 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 Enoyl-CoA hydratase domain-containing protein 2, mitochondrial (ECHDC2) fragment (residues 36-292) is a high-quality protein preparation designed for structural biology and functional studies. This 257-amino acid fragment represents a stable, soluble domain ideal for investigating mitochondrial metabolic pathways. Enoyl-CoA hydratase domain-containing protein 2 is localized to the mitochondrion, as confirmed by experimental evidence. Mitochondrial proteins play crucial roles in cellular energy metabolism and metabolic regulation. The full-length protein contains an enoyl-CoA hydratase domain, suggesting potential involvement in fatty acid beta-oxidation or other mitochondrial metabolic processes. This recombinant fragment encompasses the complete functional domain (residues 36-292) and was selected through computational analysis to ensure optimal stability and solubility for experimental applications.