Recombinant STDH1 protein (His tag)

Catalog Number	536031
Species	Caenorhabditis elegans
Expression System	E. coli
Accession	Q17703
Gene ID	182291
Molecular Weight	Predictes a molecular mass of 36.26 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 36 kDa band.

Product Information

Sequence Region	1-314
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 1-314 aa (Q17703) 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 Putative Steroid Dehydrogenase 1 (EC 1.1.1.-) from Caenorhabditis elegans, encompassing amino acids 1-314, is a high-quality protein fragment designed for structural and biochemical studies. This fragment was computationally optimized for stability and solubility, making it an ideal tool for investigating dehydrogenase mechanisms and protein function. The full-length Putative Steroid Dehydrogenase 1, encoded by the stdh-1 gene in Caenorhabditis elegans (UniProt ID: Q17703), is classified under the EC 1.1.1.- enzyme group, suggesting a role in oxidation-reduction processes potentially involving steroid substrates. While specific functional details and subcellular localization are not fully characterized, this protein is of interest for understanding metabolic pathways and enzymatic activities in model organisms. The provided fragment (residues 1-314) represents a complete domain unit, selected to facilitate reliable experimental analysis in research applications.