Recombinant CCD1P protein (His tag)

Catalog Number	534769
Synonyms	CYPXIID1
Species	Drosophila melanogaster
Expression System	E. coli
Accession	P82712
Gene ID	246648
Molecular Weight	Predictes a molecular mass of 58.00 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 60 kDa band.

Product Information

Sequence Region	38-521
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 38-521 aa (P82712) 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 fragment of the Probable cytochrome P450 12d1 proximal, mitochondrial (CYPXIID1) from Drosophila melanogaster, encompassing residues 38-521. Designed for structural and biochemical studies, this 484-amino acid fragment has been computationally optimized for stability and solubility, offering researchers a reliable tool for investigating cytochrome P450 function. The full-length Probable cytochrome P450 12d1 proximal is a mitochondrial membrane protein, as indicated by its subcellular localization. Cytochrome P450 enzymes are involved in diverse metabolic processes, including the biosynthesis and degradation of various compounds, though the specific functional details for this isoform are not fully characterized. Its mitochondrial association suggests potential roles in specialized metabolic pathways within this organelle.