Recombinant PTCD2 protein (His tag)

Catalog Number	549857
Species	Human
Expression System	E. coli
Accession	Q8WV60
Molecular Weight	Predictes a molecular mass of 40.75 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 41 kDa band.

Product Information

Sequence Region	47-388
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>89%, 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 47-388 aa (Q8WV60) 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 PTCD2 (Pentatricopeptide repeat-containing protein 2, mitochondrial) fragment (residues 47-388) is a high-quality, stable protein designed for structural and functional studies. This fragment captures a soluble and well-folded region, ideal for investigating mitochondrial RNA maturation and respiratory chain mechanisms. The full-length PTCD2 protein is localized to the mitochondrion and plays a critical role in mitochondrial RNA maturation, directly supporting mitochondrial respiratory chain function. Its involvement in RNA processing underscores its importance in cellular energy production and mitochondrial health, making it a key target for research into mitochondrial disorders and bioenergetics.