Recombinant PPCT protein (His tag)

Catalog Number	546215
Synonyms	PC-TP; START domain-containing protein 2; StARD2; StAR-related lipid transfer protein 2
Species	Human
Expression System	E. coli
Accession	Q9UKL6
Molecular Weight	Predictes a molecular mass of 26.50 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 27 kDa band.

Product Information

Sequence Region	1-214
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>85%, 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 1-214 aa (Q9UKL6) 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 Phosphatidylcholine Transfer Protein (PC-TP/StARD2) Fragment (1-214) is a high-purity protein that fully encompasses the START functional domain. This fragment is engineered to facilitate the study of phosphatidylcholine transfer activity and lipid-binding mechanisms in a controlled experimental context. Phosphatidylcholine Transfer Protein (PC-TP), also known as START domain-containing protein 2 (StARD2), is a cytoplasmic protein that catalyzes the transfer of phosphatidylcholine between membranes and binds a single lipid molecule. This protein plays a critical role in intracellular lipid transport and membrane dynamics, with implications for cellular lipid homeostasis and signaling pathways. The recombinant fragment (1-214) retains the complete START domain, enabling focused investigation into its specific lipid transfer functions and molecular interactions.