Recombinant STA10 protein (His tag)

Catalog Number	539289
Synonyms	StARD10; Antigen NY-CO-28; PCTP-like protein; PCTP-L; Serologically defined colon cancer antigen 28; StAR-related lipid transfer protein 10
Species	Human
Expression System	E. coli
Accession	Q9Y365
Molecular Weight	Predictes a molecular mass of 34.70 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 36 kDa band.

Product Information

Sequence Region	1-291
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>90%, 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 1-291 aa (Q9Y365) 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 START domain-containing protein 10 (StARD10), encompassing the full-length fragment (amino acids 1-291), is a high-purity phospholipid transfer protein ideal for investigating lipid metabolism, sperm maturation, and cellular signaling pathways. This product includes the complete START domain, enabling targeted functional studies. StARD10 is a phospholipid transfer protein that selectively binds and transfers phosphatidylcholine and phosphatidylethanolamine, with a preference for lipids containing palmitoyl/stearoyl chains at the sn-1 position and unsaturated fatty acyl chains (such as 18:1 or 18:2) at the sn-2 position. It plays a metabolic role in sperm maturation and fertilization, as evidenced by its localization to flagella in spermatids and epididymal sperm. Subcellularly, StARD10 is found in the cytoplasm, membrane, and notably in cell projections like cilia and flagella, underscoring its importance in specialized cellular structures and lipid transport processes.