Recombinant STA13 protein (His tag)

Catalog Number	546309
Synonyms	46H23.2; Deleted in liver cancer 2 protein; DLC-2; Rho GTPase-activating protein; START domain-containing protein 13; StARD13
Species	Human
Expression System	E. coli
Accession	Q9Y3M8
Molecular Weight	Predictes a molecular mass of 15.86 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 17 kDa band.

Product Information

Sequence Region	37-156
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 37-156 aa (Q9Y3M8) 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	Introducing the recombinant protein fragment of StAR-related lipid transfer protein 13 (StARD13), encompassing amino acids 37-156. This 120-amino acid fragment is expertly designed to include the complete SAM domain, offering researchers a precise tool to investigate domain-specific functions in cytoskeletal regulation and tumor suppression pathways. StARD13, also known as Deleted in liver cancer 2 protein (DLC-2), functions as a GTPase-activating protein specifically targeting RhoA and potentially Cdc42. This protein plays crucial roles in regulating cytoskeletal reorganization, cell proliferation, and cell motility, and has been identified as a tumor suppressor in hepatocellular carcinoma cells. The full-length protein localizes to multiple cellular compartments including the cytoplasm, peripheral membranes of both the cell and mitochondria, and lipid droplets, indicating its involvement in diverse cellular processes. The provided fragment allows focused study of the SAM domain's contribution to these important biological functions.