Recombinant ARAP2 protein (His tag)

Catalog Number	549046
Synonyms	Centaurin-delta-1; Cnt-d1; Protein PARX
Species	Human
Expression System	E. coli
Accession	Q8WZ64
Molecular Weight	Predictes a molecular mass of 9.59 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 10 kDa band.

Product Information

Sequence Region	1-70
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 1-70 aa (Q8WZ64) 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 ARAP2 (Centaurin-delta-1) Fragment (1-70): A high-purity protein fragment encompassing the Sterile Alpha Motif (SAM) domain, designed for studying domain-specific functions in actin cytoskeleton regulation and GTPase signaling pathways. ARAP2 (Arf-GAP with Rho-GAP domain, ANK repeat and PH domain-containing protein 2) is a phosphatidylinositol 3,4,5-trisphosphate-dependent GTPase-activating protein that plays a crucial role in remodeling the actin cytoskeleton by regulating both ARF and RHO family members. Its activity is directly activated by binding to phosphatidylinositol 3,4,5-trisphosphate (PtdIns(3,4,5)P3), with phosphatidylinositol 3,4-bisphosphate (PtdIns(3,4)P2) also serving as an activator, though with lower efficiency. The protein is localized in the cytoplasm, where it participates in key signaling pathways that influence cellular structure and movement. The provided fragment (amino acids 1-70) contains the complete SAM domain, enabling focused investigation into this domain's contribution to ARAP2's regulatory functions.