Recombinant AGAP1 protein (His tag)

Catalog Number	541561
Synonyms	AGAP-1; Centaurin-gamma-2; Cnt-g2; GTP-binding and GTPase-activating protein 1; GGAP1
Species	Human
Expression System	E. coli
Accession	Q9UPQ3
Molecular Weight	Predictes a molecular mass of 35.60 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 36 kDa band.

Product Information

Sequence Region	554-857
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 554-857 aa (Q9UPQ3) 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 AGAP-1 Fragment (554-857) - A specialized protein fragment containing the complete Arf-GAP domain, designed for studying GTPase regulation and endosomal-lysosomal trafficking mechanisms. This 304-amino acid construct provides researchers with a targeted tool for investigating the specific functions of AGAP-1's catalytic domain in ARF protein regulation. AGAP-1 (Arf-GAP with GTPase, ANK repeat and PH domain-containing protein 1) is a human GTPase-activating protein that specifically regulates ARF1 and, to a lesser extent, ARF5. This protein plays a critical role in directly controlling adapter protein 3 (AP-3)-dependent trafficking within the endosomal-lysosomal system, making it essential for understanding intracellular protein sorting and vesicular transport. AGAP-1 is primarily localized in the cytoplasm and associates with the endocytic compartment, positioning it as a key regulator of endosomal membrane dynamics and protein trafficking pathways.