Recombinant ARL8A protein (His tag)

Catalog Number	540949
Synonyms	ADP-ribosylation factor-like protein 10B; Novel small G protein indispensable for equal chromosome segregation 2
Species	Human
Expression System	E. coli
Accession	Q96BM9
Molecular Weight	Predictes a molecular mass of 23.07 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 23 kDa band.

Product Information

Sequence Region	1-186
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 1-186 aa (Q96BM9) 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 ADP-ribosylation factor-like protein 8A (ARL8A) fragment (amino acids 1-186) is a high-purity, stable protein designed for structural and biochemical studies. This fragment encompasses the complete functional domain, offering researchers a reliable tool to investigate lysosomal transport, axonal vesicle dynamics, and mitotic chromosome segregation mechanisms. ADP-ribosylation factor-like protein 8A (ARL8A) is a small G protein critical for intracellular trafficking and organelle motility. It facilitates anterograde axonal transport of presynaptic lysosome-related vesicles, supporting neuronal presynaptic biogenesis and synaptic function. Additionally, ARL8A localizes to late endosome and lysosome membranes and associates with the spindle mid-zone during mitosis, suggesting a role in equal chromosome segregation. The protein is found in axons, synapses, and the cytoskeleton, highlighting its importance in cellular division and neuronal processes. This recombinant fragment (1-186) represents a soluble, stable unit ideal for exploring these functions in vitro.