Recombinant ARF4 protein (His tag)

Catalog Number	539816
Species	Human
Expression System	E. coli
Accession	P18085
Molecular Weight	Predictes a molecular mass of 22.03 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 22 kDa band.

Product Information

Sequence Region	2-180
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 2-180 aa (P18085) 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 4 (ARF4) fragment (residues 2-180) is a high-purity protein product designed for structural and functional studies. This fragment represents a stable, soluble domain ideal for investigating ARF4's role in GTP-binding, vesicle trafficking, and ciliogenesis initiation. ADP-ribosylation factor 4 (ARF4) is a GTP-binding protein that functions as an allosteric activator of the cholera toxin catalytic subunit. It plays a critical role in protein trafficking by modulating vesicle budding and uncoating within the Golgi apparatus. Additionally, ARF4 is part of the ciliary targeting complex, which directs preciliary vesicle trafficking to the mother centriole and initiates ciliogenesis. The protein is localized to the Golgi apparatus and is membrane-associated through a lipid anchor, highlighting its importance in intracellular transport and cellular organization processes.