Recombinant ARF5 protein (His tag)

Catalog Number	547162
Species	Human
Expression System	E. coli
Accession	P84085
Molecular Weight	Predictes a molecular mass of 22.05 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	>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 2-180 aa (P84085) 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 5 (ARF5) fragment (residues 2-180) is a high-purity, soluble protein designed for structural and biochemical studies. This fragment encompasses the core functional domain, offering researchers a stable tool to investigate ARF5's role in intracellular trafficking and GTP-binding mechanisms. ADP-ribosylation factor 5 (ARF5) is a GTP-binding protein essential for protein trafficking within the Golgi apparatus, where it regulates vesicle budding and uncoating processes. It localizes to the Golgi apparatus, trans-Golgi network membrane, and perinuclear cytoplasmic regions, functioning through membrane lipid-anchoring. Additionally, ARF5 serves as an allosteric activator for the cholera toxin catalytic subunit, highlighting its relevance in host-pathogen interactions. The provided recombinant fragment (residues 2-180) represents a stable, soluble unit optimized for experimental applications, enabling detailed analysis of ARF5's molecular functions without the complexities of the full-length membrane-associated protein.