Recombinant ARF3 protein (His tag)

Catalog Number	537882
Species	Human
Expression System	E. coli
Accession	P61204
Molecular Weight	Predictes a molecular mass of 22.12 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 22 kDa band.

Product Information

Sequence Region	2-181
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 2-181 aa (P61204) 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 3 (ARF3) fragment (residues 2-181) is a high-purity, soluble protein designed for structural and biochemical studies. This stable fragment retains key functional regions, making it ideal for investigating GTP-binding activity, vesicle trafficking mechanisms, and interactions with effector proteins like the cholera toxin catalytic subunit. ADP-ribosylation factor 3 (ARF3) is a GTP-binding protein that acts as an allosteric activator of the cholera toxin catalytic subunit, an ADP-ribosyltransferase. It plays a critical role in intracellular protein trafficking, where it modulates vesicle budding and uncoating processes within the Golgi apparatus. The protein is primarily localized to the Golgi apparatus and perinuclear cytoplasmic regions, underscoring its importance in maintaining Golgi structure and function. This recombinant fragment (residues 2-181) encompasses the full functional domain of the protein, providing a valuable tool for studying its biological roles in membrane dynamics and cellular signaling pathways.