Recombinant RAB19 protein (His tag)

Catalog Number	548881
Species	Human
Expression System	E. coli
Accession	A4D1S5
Molecular Weight	Predictes a molecular mass of 22.85 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	>88%, 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 (A4D1S5) 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 Ras-related protein Rab-19 (EC 3.6.5.2) fragment (residues 1-186) is a high-purity, soluble protein designed for structural and biochemical studies. This fragment captures a stable, functional unit of Rab-19, enabling researchers to investigate its role in intracellular membrane trafficking with reliability and precision. Ras-related protein Rab-19 is a small GTPase that functions as a key regulator of intracellular membrane trafficking. It cycles between inactive GDP-bound and active GTP-bound states, orchestrating processes such as transport vesicle formation, movement, tethering, and fusion by recruiting downstream effectors to membranes. In humans, Rab-19 is localized to the cell membrane, where it is lipid-anchored on the cytoplasmic side, highlighting its involvement in critical cellular transport pathways. The provided fragment (residues 1-186) was selected computationally to ensure stability and solubility, making it ideal for elucidating the protein's mechanistic roles in research settings.