Recombinant RAB9A protein (His tag)

Catalog Number	547040
Species	Human
Expression System	E. coli
Accession	P51151
Molecular Weight	Predictes a molecular mass of 24.36 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 26 kDa band.

Product Information

Sequence Region	2-201
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>86%, 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 2-201 aa (P51151) 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-9A (EC 3.6.5.2) fragment (amino acids 2-201) is a high-quality, soluble protein designed for structural and biochemical studies. This fragment encompasses the complete functional domain of Rab-9A, enabling researchers to investigate its critical role in intracellular membrane trafficking and late endosome transport. Rab-9A is a small GTPase that acts as a key regulator of intracellular membrane trafficking, cycling between inactive GDP-bound and active GTP-bound states to control vesicle formation, movement, tethering, and fusion. Specifically, it facilitates transport between endosomes and the trans-Golgi network (TGN) by recruiting effectors like NDE1/NDEL1 to interact with the dynein motor complex for retrograde trafficking. Rab-9A also plays a role in melanosome function by trafficking melanogenic enzymes such as TYR, TYRP1, and DCT/TYRP2. It localizes to multiple cellular compartments, including the cell membrane, endoplasmic reticulum, Golgi apparatus, late endosomes, phagosomes, and melanosomes, highlighting its broad involvement in membrane dynamics and organelle-specific transport pathways.