Recombinant RAB9B protein (His tag)

Catalog Number	543682
Synonyms	Rab-9-like protein; Rab-9L
Species	Human
Expression System	E. coli
Accession	Q9NP90
Molecular Weight	Predictes a molecular mass of 24.37 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 26 kDa band.

Product Information

Sequence Region	1-201
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>90%, 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 1-201 aa (Q9NP90) 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-9B (EC 3.6.5.2) fragment (amino acids 1-201) is a high-quality, soluble protein designed for structural and biochemical studies. This fragment captures the essential GTPase domain, enabling researchers to investigate Rab-9B's role in intracellular membrane trafficking and vesicle transport mechanisms. Ras-related protein Rab-9B is a small GTPase that functions 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, RAB9B facilitates protein transport between endosomes and the trans Golgi network and may interact with the dynein motor complex via NDE1/NDEL1 to regulate retrograde trafficking of late endosomes. It localizes to the cell membrane and cytoplasmic vesicles, including phagosomes, where it is recruited during immune responses to pathogens such as Staphylococcus aureus and Mycobacterium tuberculosis. The provided fragment (1-201) represents a stable, soluble unit ideal for elucidating the protein's functional and structural properties.