Recombinant RAB41 protein (His tag)

Catalog Number	547420
Species	Human
Expression System	E. coli
Accession	Q5JT25
Molecular Weight	Predictes a molecular mass of 26.69 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 28 kDa band.

Product Information

Sequence Region	1-222
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 1-222 aa (Q5JT25) 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-41 (RAB41) fragment (residues 1-222) is a high-quality protein product designed for structural and biochemical studies. This fragment encompasses the full-length protein's functional domain, offering a stable and soluble unit ideal for investigating intracellular membrane trafficking mechanisms. Ras-related protein Rab-41 (RAB41) is a small GTPase that plays a critical role in intracellular membrane trafficking by cycling between inactive GDP-bound and active GTP-bound states. As a key regulator, it facilitates vesicle formation, movement, tethering, and fusion by recruiting downstream effectors. Specifically, RAB41 is essential for normal Golgi ribbon organization and ER-to-Golgi trafficking, highlighting its importance in cellular transport processes. The protein is localized in the cytoplasm, with a punctate distribution concentrated in ruffled regions at the cell periphery, underscoring its involvement in dynamic membrane-related functions.