Recombinant RAB3C protein (His tag)

Catalog Number	545663
Species	Human
Expression System	E. coli
Accession	Q96E17
Molecular Weight	Predictes a molecular mass of 27.61 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 29 kDa band.

Product Information

Sequence Region	1-227
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 1-227 aa (Q96E17) 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	Introducing the recombinant Ras-related protein Rab-3C (EC 3.6.5.2) fragment (residues 1-227), a high-quality protein designed for structural and biochemical studies. This soluble and stable fragment of the human RAB3C gene product enables researchers to investigate the molecular mechanisms of intracellular membrane trafficking regulation with precision and reliability. The full-length Ras-related protein Rab-3C is a small GTPase that serves as a key regulator of intracellular membrane trafficking processes, including transport vesicle formation, movement, tethering, and fusion. It functions by cycling between inactive GDP-bound and active GTP-bound states, recruiting specific downstream effectors to membranes during vesicle transport. Located at the cell membrane with a lipid-anchor on the cytoplasmic side, Rab-3C plays a critical role in maintaining cellular trafficking pathways essential for normal physiological function. The provided fragment (1-227) encompasses the complete functional domain, offering researchers a valuable tool for exploring Rab-mediated signaling and membrane dynamics.