Recombinant RAB6C protein (His tag)

Catalog Number	548212
Synonyms	Rab6-like protein WTH3
Species	Human
Expression System	E. coli
Accession	Q9H0N0
Molecular Weight	Predictes a molecular mass of 21.43 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 21 kDa band.

Product Information

Sequence Region	1-176
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 1-176 aa (Q9H0N0) 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-6C (RAB6C) fragment (amino acids 1-176) is a high-quality protein preparation ideal for studying intracellular membrane trafficking mechanisms. This stable and soluble fragment, computationally optimized for structural and biochemical applications, provides researchers with a reliable tool to investigate Rab GTPase function in vesicle transport and cell cycle regulation. Ras-related protein Rab-6C belongs to the Rab family of small GTPases that serve as master regulators of intracellular membrane trafficking. These proteins control the complete lifecycle of transport vesicles, from formation and movement to tethering and fusion with target membranes. RAB6C cycles between inactive GDP-bound and active GTP-bound states, recruiting specific downstream effectors to coordinate vesicular transport processes. Research indicates RAB6C may play a role in regulating centrosome duplication and cell cycle progression. The protein localizes to multiple cellular compartments including the nucleus, cytoplasm, and specifically to the centrosome at the microtubule organizing center, highlighting its involvement in fundamental cellular processes.