Recombinant RAB8A protein (His tag)

Catalog Number	547122
Synonyms	Oncogene c-mel
Species	Human
Expression System	E. coli
Accession	P61006
Molecular Weight	Predictes a molecular mass of 25.00 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 26 kDa band.

Product Information

Sequence Region	1-204
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 1-204 aa (P61006) 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-8A (EC 3.6.5.2) fragment (amino acids 1-204) is a high-quality, soluble protein designed for structural and functional studies. This fragment, derived from the full-length RAB8A GTPase, retains key domains essential for investigating intracellular membrane trafficking, vesicle transport, and cellular polarization mechanisms. Ras-related protein Rab-8A, encoded by the RAB8A gene in Homo sapiens, is a small GTPase that acts as a master regulator of intracellular membrane trafficking. It cycles between GDP-bound inactive and GTP-bound active states to coordinate vesicle formation, movement, tethering, and fusion. RAB8A plays critical roles in polarized vesicular transport, neurotransmitter release, transcytosis, apical membrane formation, and lumenogenesis. It is also involved in ciliogenesis, autophagy, insulin-responsive GLUT4 translocation, and endosomal export of newly synthesized proteins. The protein localizes to multiple cellular compartments, including the cell membrane, Golgi apparatus, endosomes, recycling endosomes, cilia, phagosomes, centrosomes, and lysosomes. Its dynamic membrane association and phosphorylation-dependent regulation make it a key target for studying cellular organization, trafficking pathways, and diseases linked to membrane transport dysregulation.