Recombinant RAP2B protein (His tag)

Catalog Number	544746
Species	Human
Expression System	E. coli
Accession	P61225
Molecular Weight	Predictes a molecular mass of 21.83 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 23 kDa band.

Product Information

Sequence Region	1-180
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>89%, 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 1-180 aa (P61225) 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 Rap-2b (EC 3.6.5.2) fragment (amino acids 1-180) is a high-purity, stable protein designed for structural and biochemical studies. This fragment represents a soluble and functional unit of the GTP-binding protein, ideal for investigating its role in signal transduction and cellular dynamics. Ras-related protein Rap-2b is a small GTP-binding protein that alternates between GDP-bound inactive and GTP-bound active states, playing a key role in cellular signaling pathways. It is involved in EGFR and CHRM3 signaling by stimulating PLCE1 and may contribute to cytoskeletal rearrangements and cell spreading through activation of TNIK. Additionally, Rap-2b regulates membrane vesiculation in red blood cells. The protein localizes to recycling endosome membranes, where it is lipid-anchored on the cytoplasmic side and associated with vesicles released from red blood cells, underscoring its importance in intracellular trafficking and membrane dynamics.