Recombinant MYRIP protein (His tag)

Catalog Number	540802
Synonyms	Exophilin-8; Myosin-VIIa- and Rab-interacting protein; Synaptotagmin-like protein lacking C2 domains C; SlaC2-c; Slp homolog lacking C2 domains c
Species	Human
Expression System	E. coli
Accession	Q8NFW9
Molecular Weight	Predictes a molecular mass of 19.20 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 19 kDa band.

Product Information

Sequence Region	1-148
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>88%, 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 1-148 aa (Q8NFW9) 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 MyRIP Fragment (aa 1-148) - A high-purity protein fragment containing the complete Rab-binding domain (RabBD) of Rab effector MyRIP, designed for studying melanosome transport mechanisms and Rab27A interactions in cellular trafficking research. MyRIP (Myosin-VIIa- and Rab-interacting protein) is a crucial Rab effector protein that facilitates melanosome transport by serving as a molecular link between melanosome-bound RAB27A and motor proteins MYO5A and MYO7A. This protein functions as a scaffolding component that connects RAB27A-containing vesicles to actin filaments, enabling proper intracellular transport. MyRIP also acts as a protein kinase A-anchoring protein (AKAP), potentially linking PKA to exocytosis machinery components to facilitate processes such as insulin release. The protein localizes to the cytoplasm, perinuclear region, and cytoplasmic vesicles, with specific association to melanosomes and actin filaments in various cell types including photoreceptor cells and retinal pigment epithelium.