Recombinant RINL protein (His tag)

Catalog Number	550414
Species	Human
Expression System	E. coli
Accession	Q6ZS11
Molecular Weight	Predictes a molecular mass of 32.59 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 33 kDa band.

Product Information

Sequence Region	257-536
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 257-536 aa (Q6ZS11) 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	This recombinant protein is a fragment of the human Ras and Rab interactor-like protein (RINL), spanning residues 257-536. It includes the complete VPS9 domain, making it an ideal tool for studying the guanine nucleotide exchange factor (GEF) activity and mechanisms of RAB5A and RAB22A activation in endocytosis-related research. The full-length Ras and Rab interactor-like protein (RINL) functions as a guanine nucleotide exchange factor (GEF) that specifically activates RAB5A and RAB22A by promoting the exchange of GDP for GTP. This activity plays a critical role in regulating endocytosis, contributing to intracellular vesicle trafficking and membrane dynamics. RINL is localized to cellular projections such as ruffles and cytoplasmic vesicles, underscoring its involvement in membrane remodeling and endocytic pathways. The protein's function is supported by its domain architecture, with the VPS9 domain being central to its GEF activity.