Recombinant RGL3 protein (His tag)

Catalog Number	549490
Synonyms	RalGDS-like 3
Species	Human
Expression System	E. coli
Accession	Q3MIN7
Molecular Weight	Predictes a molecular mass of 31.52 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 32 kDa band.

Product Information

Sequence Region	241-506
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>90%, 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 241-506 aa (Q3MIN7) 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 product features a recombinant fragment of the human Ral guanine nucleotide dissociation stimulator-like 3 (RalGDS-like 3) protein, encompassing amino acids 241-506. It includes the complete Ras-GEF domain, making it an ideal tool for investigating guanine nucleotide exchange factor activity and Ral-A signaling mechanisms in controlled experimental settings. Ral guanine nucleotide dissociation stimulator-like 3, encoded by the RGL3 gene, functions as a guanine nucleotide exchange factor (GEF) specifically for Ral-A. It acts as a potential effector for GTPases such as HRas and Ras-related protein M-Ras, playing a role in Ras signaling pathways. Additionally, it negatively regulates Elk-1-dependent gene induction downstream of HRas and MEKK1, suggesting its involvement in fine-tuning transcriptional responses. The subcellular localization of the full-length protein is not specified in the provided data.