Recombinant RGL2 protein (His tag)

Catalog Number	544077
Synonyms	RalGDS-like 2; RalGDS-like factor; Ras-associated protein RAB2L
Species	Human
Expression System	E. coli
Accession	O15211
Molecular Weight	Predictes a molecular mass of 52.48 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 54 kDa band.

Product Information

Sequence Region	54-514
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>86%, 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 54-514 aa (O15211) 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 RGL2 Fragment (54-514) - A high-quality protein fragment encompassing the complete Ras-GEF domains of Ral guanine nucleotide dissociation stimulator-like 2, designed for functional studies of guanine nucleotide exchange activity and Ras/Rap signaling pathways. RGL2 (Ral guanine nucleotide dissociation stimulator-like 2) is a probable guanine nucleotide exchange factor that serves as a putative effector of Ras and/or Rap signaling pathways. According to functional studies, this protein associates with the GTP-bound forms of Rap1A and H-Ras in vitro, indicating its role in mediating nucleotide exchange and potentially regulating small GTPase signaling cascades. The full-length protein functions as a molecular switch activator in cellular signaling networks, though its specific subcellular localization remains to be fully characterized.