Recombinant RGPS2 protein (His tag)

Catalog Number	549814
Synonyms	Ral GEF with PH domain and SH3-binding motif 2; RalA exchange factor RalGPS2
Species	Human
Expression System	E. coli
Accession	Q86X27
Molecular Weight	Predictes a molecular mass of 30.06 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 30 kDa band.

Product Information

Sequence Region	43-287
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 43-287 aa (Q86X27) 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 product features a 245-amino acid fragment (residues 43-287) of the human Ras-specific guanine nucleotide-releasing factor RalGPS2, encompassing the complete Ras-GEF domain. It serves as an ideal tool for researchers investigating RALA activation mechanisms, cytoskeletal organization, and Ras-independent transcriptional regulation. RalGPS2 (Ral GEF with PH domain and SH3-binding motif 2) is a guanine nucleotide exchange factor that specifically activates the small GTPase RALA. According to functional studies, it plays roles in cytoskeletal organization and may stimulate transcription through Ras-independent pathways. The protein localizes to both the cytoplasm and cell membrane, with membrane association mediated by its PH domain. This fragment retains the core catalytic Ras-GEF domain, enabling focused studies on RalGPS2's nucleotide exchange activity and related cellular functions.