Recombinant RGF1A protein (His tag)

Catalog Number	551220
Species	Human
Expression System	E. coli
Accession	Q8N9B8
Molecular Weight	Predictes a molecular mass of 52.90 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 53 kDa band.

Product Information

Sequence Region	37-481
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>89%, 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 37-481 aa (Q8N9B8) 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 Ras-GEF domain-containing family member 1A (RASGEF1A) fragment (residues 37-481), encompassing the complete N-terminal Ras-GEF and Ras-GEF domains. This high-purity protein is an essential tool for investigating guanine nucleotide exchange factor (GEF) activity and its role in cell migration processes. Ras-GEF domain-containing family member 1A, encoded by the RASGEF1A gene in Homo sapiens, functions as a guanine nucleotide exchange factor (GEF) with demonstrated specificity for RAP2A, KRAS, HRAS, and NRAS in vitro studies. This protein plays a critical role in regulating cell migration, as evidenced by multiple research publications. The recombinant fragment (37-481) contains the complete functional domains necessary for studying the molecular mechanisms of nucleotide exchange and its implications in cellular movement and signaling pathways.