Recombinant RGF1C protein (His tag)

Catalog Number	551996
Species	Human
Expression System	E. coli
Accession	Q8N431
Molecular Weight	Predictes a molecular mass of 50.92 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 51 kDa band.

Product Information

Sequence Region	37-466
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>87%, 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 37-466 aa (Q8N431) 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 high-quality recombinant protein product features a 430-amino acid fragment (residues 37-466) of human Ras-GEF domain-containing family member 1C (RASGEF1C). It is specifically designed to contain the complete Ras-GEF functional domain (residues 200-446), providing an ideal tool for researchers studying guanine nucleotide exchange mechanisms and Ras signaling pathways. Ras-GEF domain-containing family member 1C, encoded by the RASGEF1C gene in humans, functions as a guanine nucleotide exchange factor (GEF). GEFs are crucial regulatory proteins that activate small GTPases, such as Ras, by promoting the exchange of bound GDP for GTP. This activation is a fundamental switch in numerous cellular signaling cascades governing processes like cell growth, differentiation, and survival. The provided fragment allows focused investigation into the core catalytic exchange activity of this protein.