Recombinant RHG35 protein (His tag)

Catalog Number	543728
Synonyms	Glucocorticoid receptor DNA-binding factor 1; Glucocorticoid receptor repression factor 1; GRF-1; Rho GAP p190A; p190-A
Species	Human
Expression System	E. coli
Accession	Q9NRY4
Molecular Weight	Predictes a molecular mass of 24.86 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 25 kDa band.

Product Information

Sequence Region	1244-1443
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 1244-1443 aa (Q9NRY4) 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 ARHGAP35 (Rho GTPase-activating protein 35) Fragment (aa 1244-1443) is a high-purity protein designed for studying Rho GTPase regulation. This fragment fully encompasses the Rho-GAP domain, making it an essential tool for investigating GTPase signaling, cytoskeletal dynamics, and cell migration mechanisms. The full-length ARHGAP35 protein functions as a Rho GTPase-activating protein (GAP) that modulates Rho GTPase activity through interactions with acidic phospholipids and phosphorylation by PRKCA. It plays critical roles in cell differentiation, adhesion, migration, and morphogenesis processes including neural tube fusion and mammary gland development. The protein localizes to multiple cellular compartments including cytoplasm, cytoskeleton, basal body, nucleus, and cell membrane, where it regulates F-actin polymerization and polarized cell migration. While historically associated with glucocorticoid receptor repression, this function requires further experimental validation. The recombinant fragment (aa 1244-1443) provides researchers with a defined domain-specific tool for mechanistic studies of Rho GTPase signaling pathways.