Recombinant RHG30 protein (His tag)

Catalog Number	545313
Synonyms	Rho-type GTPase-activating protein 30
Species	Human
Expression System	E. coli
Accession	Q7Z6I6
Molecular Weight	Predictes a molecular mass of 26.48 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 27 kDa band.

Product Information

Sequence Region	1-216
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 1-216 aa (Q7Z6I6) 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 Rho GTPase-activating protein 30 (ARHGAP30) Fragment (1-216) is a high-purity protein designed to encompass the complete Rho-GAP domain. This fragment serves as an essential tool for investigating the specific GTPase-activating functions of ARHGAP30, enabling targeted studies on RAC1 and RHOA regulation in cellular processes. The full-length Rho GTPase-activating protein 30 (ARHGAP30) functions as a GTPase-activating protein (GAP) specifically for RAC1 and RHOA, but not CDC42, playing a critical role in regulating these key GTPases involved in cytoskeletal dynamics, cell migration, and signal transduction. It is localized to cytoplasmic vesicles, suggesting its involvement in vesicle-mediated processes and intracellular trafficking. This recombinant fragment provides a focused means to study the mechanistic role of the Rho-GAP domain in modulating GTPase activity and its implications in cellular signaling pathways.