Recombinant GDIR3 protein (His tag)

Catalog Number	549352
Synonyms	Rho GDI 3; Rho-GDI gamma
Species	Human
Expression System	E. coli
Accession	Q99819
Molecular Weight	Predictes a molecular mass of 21.97 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 23 kDa band.

Product Information

Sequence Region	47-225
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 47-225 aa (Q99819) 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 Rho GDP-dissociation inhibitor 3 (Rho GDI 3) fragment (amino acids 47-225) from Homo sapiens. This 179-amino acid fragment is a stable, soluble unit ideal for studying RhoB regulation and GDP/GTP exchange mechanisms in biochemical and structural research. Rho GDP-dissociation inhibitor 3 (Rho GDI 3), encoded by the ARHGDIG gene, specifically inhibits GDP/GTP exchange in RhoB and interacts with both GDP- and GTP-bound forms of RhoB and RhoG proteins. It stimulates GDP release from RhoB but does not affect GTP-bound RhoB, playing a key role in growth-regulated cellular processes. The protein is localized in the cytoplasm, where it modulates Rho protein activity critical for signal transduction pathways.