Recombinant GDIR2 protein (His tag)

Catalog Number	544690
Synonyms	Rho GDI 2; Ly-GDI; Rho-GDI beta
Species	Human
Expression System	E. coli
Accession	P52566
Molecular Weight	Predictes a molecular mass of 24.51 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 29 kDa band.

Product Information

Sequence Region	2-201
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>88%, 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 2-201 aa (P52566) 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 2 (Rho GDI 2) fragment (amino acids 2-201) from Homo sapiens, designed for structural and biochemical studies. This stable, soluble fragment retains key functional domains essential for investigating its role in regulating Rho protein activity and cytoskeletal dynamics. Rho GDP-dissociation inhibitor 2 (Rho GDI 2), encoded by the ARHGDIB gene, is a critical regulator of Rho GTPases. It controls the GDP/GTP exchange reaction by inhibiting GDP dissociation and subsequent GTP binding to Rho proteins, thereby modulating their activation. This protein plays a pivotal role in actin cytoskeleton reorganization, influencing cellular processes such as motility and morphology. Rho GDI 2 is predominantly localized in the cytoplasm and cytosol, where it interacts with Rho family members to maintain cellular homeostasis. The provided fragment (amino acids 2-201) encompasses the functional domain necessary for studying these regulatory mechanisms in vitro.