Recombinant GDIB protein (His tag)

Catalog Number	544663
Synonyms	Rab GDI beta; Guanosine diphosphate dissociation inhibitor 2; GDI-2
Species	Human
Expression System	E. coli
Accession	P50395
Molecular Weight	Predictes a molecular mass of 52.32 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 55 kDa band.

Product Information

Sequence Region	1-445
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 1-445 aa (P50395) 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 Rab GDP Dissociation Inhibitor Beta (Rab GDI beta), a key regulator of intracellular membrane trafficking, is available as a stable and soluble fragment (residues 1-445) optimized for structural and biochemical studies. Rab GDP Dissociation Inhibitor Beta (GDI-2) functions as a GDP-dissociation inhibitor that maintains most Rab proteins in their inactive GDP-bound state, thereby regulating intracellular membrane trafficking processes. It negatively modulates protein transport to the cilium and ciliogenesis through inhibition of RAB8A. The protein is localized in the cytoplasm, associated with membranes as a peripheral protein, and found in the Golgi apparatus and trans-Golgi network, highlighting its role in vesicular transport and organelle dynamics.