Recombinant DIRA1 protein (His tag)

Catalog Number	546589
Synonyms	Distinct subgroup of the Ras family member 1; Ras-related inhibitor of cell growth; Rig; Small GTP-binding tumor suppressor 1
Species	Human
Expression System	E. coli
Accession	O95057
Molecular Weight	Predictes a molecular mass of 23.64 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 24 kDa band.

Product Information

Sequence Region	1-195
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 1-195 aa (O95057) 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	Introducing the recombinant GTP-binding protein Di-Ras1 (DIRAS1) fragment (residues 1-195), a stable and soluble unit designed for structural and biochemical studies. This fragment represents a key functional region of Di-Ras1, which displays low GTPase activity and predominantly exists in the GTP-bound form, making it an ideal tool for investigating Ras family signaling mechanisms. The full-length GTP-binding protein Di-Ras1, also known as Ras-related inhibitor of cell growth (Rig) or Small GTP-binding tumor suppressor 1, is a distinct subgroup member of the Ras family that displays low GTPase activity and exists predominantly in the GTP-bound form. It is localized to the cell membrane through lipid-anchoring on the cytoplasmic side, suggesting its involvement in membrane-associated signaling pathways. As a Ras-related protein with potential tumor suppressor functions, Di-Ras1 plays important roles in regulating cell growth and proliferation processes.