Recombinant RERGL protein (His tag)

Catalog Number	550500
Synonyms	RERG/Ras-like protein
Species	Human
Expression System	E. coli
Accession	Q9H628
Molecular Weight	Predictes a molecular mass of 25.51 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 26 kDa band.

Product Information

Sequence Region	1-205
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>90%, 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 1-205 aa (Q9H628) 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 RERGL protein fragment (residues 1-205), derived from the human Ras-related and estrogen-regulated growth inhibitor-like protein. This fragment is designed for structural and biochemical studies, offering a stable and soluble unit that retains GDP/GTP binding and potential GTPase activity, ideal for investigating molecular mechanisms in cellular signaling. The full-length Ras-related and estrogen-regulated growth inhibitor-like protein (RERGL) is a human protein encoded by the RERGL gene. It functions by binding GDP/GTP and may exhibit intrinsic GTPase activity, suggesting a role in regulating cellular processes through GTP-dependent signaling pathways. As a Ras-like protein, it is implicated in growth and estrogen-related regulatory mechanisms, though its specific subcellular localization and broader functional context remain areas of active research. This recombinant fragment provides a focused tool for exploring its biochemical properties and interactions.