Recombinant ERGI2 protein (His tag)

Catalog Number	548045
Species	Human
Expression System	E. coli
Accession	Q96RQ1
Molecular Weight	Predictes a molecular mass of 31.91 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 32 kDa band.

Product Information

Sequence Region	55-319
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 55-319 aa (Q96RQ1) 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 Endoplasmic reticulum-Golgi intermediate compartment protein 2 (ERGIC2) Fragment (aa 55-319) is a high-purity protein designed for structural and biochemical studies. This 265-amino acid fragment, derived from the ERGIC2 gene, represents a stable and soluble unit ideal for investigating intracellular transport mechanisms between the endoplasmic reticulum and Golgi apparatus. Endoplasmic reticulum-Golgi intermediate compartment protein 2, encoded by the ERGIC2 gene in Homo sapiens, plays a potential role in transport between the endoplasmic reticulum and Golgi. The protein localizes to multiple cellular compartments including the endoplasmic reticulum-Golgi intermediate compartment membrane, cis-Golgi network membrane, endoplasmic reticulum membrane, cytoplasm, and nucleus, where it cycles between the endoplasmic reticulum and Golgi. This dynamic localization underscores its importance in intracellular trafficking pathways essential for cellular function.