Recombinant COG2 protein (His tag)

Catalog Number	540309
Synonyms	COG complex subunit 2; Component of oligomeric Golgi complex 2; Low density lipoprotein receptor defect C-complementing protein
Species	Human
Expression System	E. coli
Accession	Q14746
Molecular Weight	Predictes a molecular mass of 55.21 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 58 kDa band.

Product Information

Sequence Region	1-467
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 1-467 aa (Q14746) 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 COG2 protein fragment (residues 1-467), derived from Homo sapiens, offers a stable and soluble unit ideal for structural and functional studies of the Conserved Oligomeric Golgi complex subunit 2, essential for Golgi apparatus integrity and operation. The full-length COG2 protein is critical for maintaining normal Golgi apparatus morphology and function, as it is a component of the oligomeric Golgi complex. It localizes to the Golgi apparatus membrane as a peripheral membrane protein on the cytoplasmic side, playing a key role in intracellular trafficking and glycosylation processes. This fragment, encompassing residues 1-467, was selected for its stability and solubility to facilitate biochemical and structural analyses, aiding research into Golgi-related cellular mechanisms.