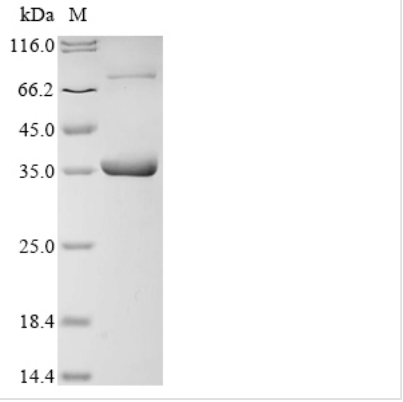
Recombinant Human Conserved oligomeric Golgi complex subunit 5 (COG5), partial

Product Code	CSB-EP890771HU
Abbreviation	Recombinant Human COG5 protein, partial
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q9UP83
Form	Liquid or Lyophilized powder
Storage Buffer	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose.
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	MGWVGGRRRDSASPPGRSRSAADDINPAPANMEGGGGSVAVAGLGARGSG AAAATVRELLQDGCYSDFLNEDFDVKTYTSQSIHQAVIAEQLAKLAQGISQLDR ELHLQVVARHEDLLAQATGIESLEGVLQMMQTRIGALQGAVDRIKAKIVEPYNK IVARTAQLARLQVACDLLRRIIRILNLSKRLQGQLQGGSREITKAAQSLNELDYL SQGIDLSGIEVIENDLLFIARARLEVENQAKRLLEQGLETQNPT
Research Area	Signal Transduction
Source	E.coli
Target Names	COG5
Expression Region	1-257aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 10xHis-tagged
Mol. Weight	33.8 kDa
Protein Length	Partial
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

The recombinant Human COG5 was expressed with the amino acid range of 1-257. The theoretical molecular weight of the COG5 protein is 33.8 kDa. This COG5 protein is produced using e.coli expression system. The COG5 coding gene included the N-terminal 10xHis tag, which simplifies the detection and purification processes of the recombinant COG5 protein in following stages of expression and purification.

Conserved oligomeric Golgi complex subunit 5 (COG5) is a part of the COG complex, which is involved in maintaining the structure and function of the Golgi apparatus. COG5 specifically plays a role in tethering vesicles and facilitating the intra-Golgi transport of proteins. Mutations in the COG5 gene can lead to defects in protein glycosylation and result in congenital disorders of glycosylation (CDG), affecting various physiological processes. Research areas involving COG5 include investigating its role in intracellular trafficking, glycosylation disorders, and cellular homeostasis. Understanding COG5's functions contributes to insights into fundamental cellular processes and potential therapeutic targets for related disorders.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

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