

Recombinant Mouse Copg1 Protein, Myc/DDK-tagged

Cat. No. Copg1-2260M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length coatomer protein complex, subunit gamma 1 (Cpg1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	The coatomer is a cytosolic protein complex that binds to dilysine motifs and reversibly associates with Golgi non-clathrin-coated vesicles, which further mediate biosynthetic protein transport from the ER, via the Golgi up to the trans Golgi network. Coatomer complex is required for budding from Golgi membranes, and is essential for the retrograde Golgi-to-ER transport of dilysine-tagged proteins. In mammals, the coatomer can only be recruited by membranes associated to ADP-ribosylation factors (ARFs), which are small GTP-binding proteins; the complex also influences the Golgi structural integrity, as well as the processing, activity, and endocytic recycling of LDL receptors. Required for limiting lipid storage in lipid droplets. Involved in lipid homeostasis by regulating the presence of perilipin family members PLIN2 and PLIN3 at the lipid droplet surface and promoting the association of adipocyte triglyceride lipase (PNPLA2) with the lipid droplet surface to mediate lipolysis.
Molecular Mass	98 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and

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handling conditions. Avoid repeated freeze-thaw cycles.

Storage Store at -80 centigrade after receiving vials.

Concentration >50 µg/mL as determined by microplate BCA method

Storage Buffer 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name Copg1 coatomer protein complex, subunit gamma 1 [Mus musculus (house mouse)]

Official Symbol Copg1

Synonyms Copg1; coatomer protein complex, subunit gamma 1; Co; Copg; D6Wsu16; AU019265; BC056168; D6Ertd71; D6Wsu16e; D6Ertd71e; coatomer subunit gamma-1; coatomer subunit gamma; gamma-1-COP; gamma-1-coat protein; gamma-COP; gamma-coat protein

Gene ID 54161

mRNA Refseq NM_017477

Protein Refseq NP_059505

UniProt ID Q9QZE5

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