

Product datasheet for PH309018

COPG (COPG1) (NM_016128) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	COPG MS Standard C13 and N15-labeled recombinant protein (NP_057212)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC209018
Predicted MW:	97.7 kDa
Protein Sequence:	>RC209018 protein sequence Red=Cloning site Green=Tags(s)

MLKKFDKKDEESGGGSPNFQHLKSAVLQEARVNETPINPRKCAHILTKILYLINQGEHLGTTEATEAF
FAMTKLFQSNPTLRMCYLTIKEMSCIAEDVIVTSSLTKDMTGKEDNYRGPVAVRALCQITDSTMLQAI
ERYMKQAIIVDKVPSVSSALVSSLHLLKCSFDVVKRWVNEAQEAASSDNIMVQYHALGLLYHVRKNDRLA
VNKMISKVTRHGLKSPFAYCMMIRVASKQLEEDGSRDPSLDFDIESCLRKNKHEMVVYEAASAINLPGC
SAKELAPAVSVLQLFCSSPKAALRYAAVRTLNKVMKHPSAVTACNLDLENLVTDSNRSIATLAITLLK
TGSESSIDRLMKQISSFMSEISDEFKVVVVQAIASALCQKYPRKHAVLMNFLTMLREEGGFYKRAIVDC
IISIIIEENSESKETGLSHLCEFIEDCEFTVLATRILHLLGQEGPKTTNPSKYIRFIYNRVLEHEEVVRAG
AVSALAKFGAQNEMLPSILVLLKRCVMDDNEVRDRATFYLVNLEQKQKALNAGYILNGLTVSIPGLER
ALQYQYTLPESEKPFDLKSVPLATAPMAEQRTSTPITAVKQPEKVAATRQEIFQEQLAAVPEFRGLGPLF
KSSPEPVALTESETEYVIRCTKHTFTNHMVQFDCTNTLNDQTLNENTVQMEPTEAYEVLVYVPARSLPY
NQPGTCYTLVALPKEDPTAVACTFSCMMKFTVKDCDPTTGETDDEGYEDEYVLEDLEVTVADHIQKVMKL
NFEAAWDEVGDEFEKEETFTLSTIKTLEEAVGNIKFLGMHPCERSDKVPDNKNTHTLLLAGVFRGGHDI
LVRSRLLLLDTVTMQVTARSLEELPVDIILASVG

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.



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RefSeq: [NP_057212](#)

RefSeq Size: 3114

RefSeq ORF: 2622

Synonyms: COPG

Locus ID: 22820

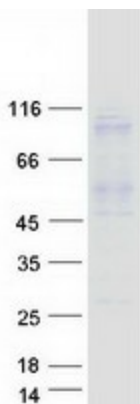
UniProt ID: [Q9Y678](#)

Cytogenetics: 3q21.3

Summary: 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 (By similarity). [UniProtKB/Swiss-Prot Function]

Protein Families: Druggable Genome

Product images:



Coomassie blue staining of purified COPG1 protein (Cat# [TP309018]). The protein was produced from HEK293T cells transfected with COPG1 cDNA clone (Cat# [RC209018]) using MegaTran 2.0 (Cat# [TT210002]).