Datasheet for ABIN3091937

COPG Protein (AA 1-874) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	COPG
Protein Characteristics:	AA 1-874
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This COPG protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MLKKFDKKDE ESGGGSNPFQ HLEKSAVLQE ARVFNETPIN PRKCAHILTK ILYLINQGEH LGTTEATEAF FAMTKLFQSN DPTLRRMCYL TIKEMSCIAE DVIIVTSSLT KDMTGKEDNY RGPAVRALCQ ITDSTMLQAI ERYMKQAIVD KVPSVSSSAL VSSLHLLKCS FDVVKRWVNE AQEAASSDNI MVQYHALGLL YHVRKNDRLA VNKMISKVTR HGLKSPFAYC MMIRVASKQL EEEDGSRDSP LFDFIESCLR NKHEMVVYEA ASAIVNLPGC SAKELAPAVS VLQLFCSSPK AALRYAAVRT LNKVAMKHPS AVTACNLDLE NLVTDSNRSI ATLAITTLLK TGSESSIDRL MKQISSFMSE ISDEFKVVVV QAISALCQKY PRKHAVLMNF LFTMLREEGG FEYKRAIVDC IISIIEENSE SKETGLSHLC EFIEDCEFTV LATRILHLLG QEGPKTTNPS KYIRFIYNRV VLEHEEVRAG AVSALAKFGA QNEEMLPSIL VLLKRCVMDD DNEVRDRATF YLNVLEQKQK ALNAGYILNG LTVSIPGLER ALQQYTLEPS EKPFDLKSVP LATAPMAEQR TESTPITAVK QPEKVAATRQ EIFQEQLAAV PEFRGLGPLF KSSPEPVALT ESETEYVIRC TKHTFTNHMV FQFDCTNTLN

DQTLENVTVQ MEPTEAYEVL CYVPARSLPY NQPGTCYTLV ALPKEDPTAV ACTFSCMMKF TVKDCDPTTG ETDDEGYEDE YVLEDLEVTV ADHIQKVMKL NFEAAWDEVG DEFEKEETFT LSTIKTLEEA VGNIVKFLGM HPCERSDKVP DNKNTHTLLL AGVFRGGHDI LVRSRLLLLD TVTMQVTARS LEELPVDIIL ASVG

Sequence without tag. The proposed Strep-Tag is based on experience s with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.

Characteristics:

Key Benefits:

- Made in Germany - from design to production - by highly experienced protein experts.
- Protein expressed with ALiCE® and purified in one-step affinity chromatography
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a **made-to-order protein** and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

The big advantage of ordering our **made-to-order proteins** in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.
- During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!

Concentration:

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- The protein's absorbance will be measured against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Product Details

Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

Target Details

Target:	COPG
Alternative Name:	COPG1 (COPG Products)
Background:	Coatomer subunit gamma-1 (Gamma-1-coat protein) (Gamma-1-COP),FUNCTION: 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). {ECO:0000250, ECO:0000269|PubMed:20674546}.
Molecular Weight:	97.7 kDa
UniProt:	Q9Y678

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Comment:	ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.

Application Details

	During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol **Might differ depending on protein.**
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months