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CALCOCO2 Protein (AA 1-331) (Strep Tag)



Overview

Quantity:	1 mg
Target:	CALCOCO2
Protein Characteristics:	AA 1-331
Origin:	Mouse
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CALCOCO2 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:

MDQCPIPTLL EHGNFSQVLF NNVEKFYAPR GDIMCYYTLT EKFIPRRKDW IGIFKVGWKT
TQEYYTFMWA PLPKDQNKDS ATQQEIQFKA YYLPKDVERY QFCYVDEDGL VRGTSVPFQF
CPDPDEDIMV VINKEKVEEM EQLSEELYQQ NQELKDKYAD LHEQLQRKQV ALEATQRVNK
TLEHKVEEKA SWEKEKASWE EEKASWEEEK ASWEEEKASW EEEKASWEEE KASWEEEKAS
WEEEKASWEE EKASWEEEKA SWEEEKASWE EEKASWEEEK ASWEEEKASW EKEKASWEEE
KASWEKEKAP WEVEKAPWKE VKAYWWNDLH R

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 by multi-step, protein-specific process to ensure

correct folding and modification.

- 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 will ensure that you receive a correctly folded 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 posttranslational 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 in several dilutions and is measured against its specific reference buffer.
- We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

Purification:

Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®):

- 1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE.
- Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.

Purity:

≥ 80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)
Target Details	
Target Details	
Target:	CALCOCO2
Alternative Name:	Calcoco2 (CALCOCO2 Products)
Background:	Calcium-binding and coiled-coil domain-containing protein 2 (Nuclear domain 10 protein
	NDP52) (Nuclear domain 10 protein 52),FUNCTION: Xenophagy-specific receptor required for
	autophagy-mediated intracellular bacteria degradation (By similarity). Acts as an effector
	protein of galectin-sensed membrane damage that restricts the proliferation of infecting
	pathogens upon entry into the cytosol by targeting LGALS8-associated bacteria for autophage
	(By similarity). Initially orchestrates bacteria targeting to autophagosomes and subsequently
	ensures pathogen degradation by regulating pathogen-containing autophagosome maturatio
	(By similarity). Bacteria targeting to autophagosomes relies on its interaction with MAP1LC3A
	MAP1LC3B and/or GABARAPL2, whereas regulation of pathogen-containing autophagosome
	maturation requires the interaction with MAP3LC3C (By similarity). May play a role in ruffle
	formation and actin cytoskeleton organization and seems to negatively regulate constitutive
	secretion (By similarity). {ECO:0000250 UniProtKB:Q13137}.
Molecular Weight:	40.1 kDa
UniProt:	A2A6M5
Application Details	
Application Notes:	In addition to the applications listed above we expect the protein to work for functional studie
	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.
	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

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something that functions like a cell, but without the constraints of a living system - all that's

Application Details

	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. If you have a special request, please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)