

Datasheet for ABIN3089884 BCO2 Protein (AA 1-579) (Strep Tag)



Overview

Quantity:	250 µg
Target:	BCO2
Protein Characteristics:	AA 1-579
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This BCO2 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MFFRVFLHFI RSHSATAVDF LPVMVHRLPV FKRYMGNTPQ KKAVFGQCRG LPCVAPLLTT
	VEEAPRGISA RVWGHFPKWL NGSLLRIGPG KFEFGKDKYN HWFDGMALLH QFRMAKGTVT
	YRSKFLQSDT YKANSAKNRI VISEFGTLAL PDPCKNVFER FMSRFELPGK AAAMTDNTNV
	NYVRYKGDYY LCTETNFMNK VDIETLEKTE KVDWSKFIAV NGATAHPHYD LDGTAYNMGN
	SFGPYGFSYK VIRVPPEKVD LGETIHGVQV ICSIASTEKG KPSYYHSFGM TRNYIIFIEQ
	PLKMNLWKIA TSKIRGKAFS DGISWEPQCN TRFHVVEKRT GQLLPGRYYS KPFVTFHQIN
	AFEDQGCVII DLCCQDNGRT LEVYQLQNLR KAGEGLDQVH NSAAKSFPRR FVLPLNVSLN
	APEGDNLSPL SYTSASAVKQ ADGTIWCSHE NLHQEDLEKE GGIEFPQIYY DRFSGKKYHF
	FYGCGFRHLV GDSLIKVDVV NKTLKVWRED GFYPSEPVFV PAPGTNEEDG GVILSVVITP
	NQNESNFILV LDAKNFEELG RAEVPVQMPY GFHGTFIPI
	Sequence without tag. The proposed Strep-Tag is based on experience s with the expression

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	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 fo 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.
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:

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custom-made

Target Details

Target:	BCO2
Alternative Name:	BCO2 (BCO2 Products)
Background:	Carotenoid-cleaving dioxygenase, mitochondrial (EC 1.13.11) (EC 1.13.11.71) (B-diox-II) (Beta,beta-carotene 9',10'-oxygenase) (Beta-carotene dioxygenase 2),FUNCTION: Broad specificity mitochondrial dioxygenase that mediates the asymmetric oxidative cleavage of carotenoids. Cleaves carotenes (pure hydrocarbon carotenoids) such as all-trans-beta-carotene and lycopene as well as xanthophylls (oxygenated carotenoids) such as zeaxanthin, lutein and beta-cryptoxanthin at both the 9,10 and the 9',10' carbon-carbon double bond. Through its function in carotenoids metabolism regulates oxidative stress and the production of important signaling molecules. {ECO:0000250 UniProtKB:Q99NF1}.
Molecular Weight:	65.7 kDa
UniProt:	Q9BYV7
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. 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.

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Handling

	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