

Datasheet for ABIN7560443  
**BCO2 Protein (AA 1-532) (His tag)**



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## Overview

|                               |   |
|-------------------------------|---|
| Quantity:                     | 1 mg  |
| Target:                       | BCO2  |
| Protein Characteristics:      | AA 1-532                                    |
| Origin:                       | Mouse                                       |
| Source:                       | HEK-293 Cells                               |
| Protein Type:                 | Recombinant                                 |
| Purification tag / Conjugate: | This BCO2 protein is labelled with His tag. |

## Product Details

|           |   |
|-----------|---|
| Purpose:  | Custom-made recombinant Bco2 Protein expressed in mammalian cells.  |
| Sequence: | <p>MLGPKQSLPC IAPLLTTAEE TLSAVSARVR GHIPEWLNGY LLRVGPGKFE FGKDRYNHWF<br/>DGMALLHQFR MERGTVTYKS KFLQSDTYKA NSAGGRIVIS EFGTLALPDP CKSIFERFMS<br/>RFEPPTMTDN TNVNFVQYKG DYYMSTETNF MNKVDIEMLE RTEKVDWSKF IAVNGATAHP<br/>HYDPDGTAYN MGNSYGPRGS CYNIIRVPPK KKEPGETIHG AQLVCSIAS EKMKPSYYHS<br/>FGMTKNYIIF VEQPVKMKLW KIITSKIRGK PFADGISWEP QYNTRFHVVD KHTGQLLPGM<br/>YYSMPFLTYH QINAFEDQGC IVIDLCCQDD GRSLDLYQLQ NLRKAGEGLD QVYELKAKSF<br/>PRRFVLPLDV SVDAAEKGNL SPLSYSSASA VKQGDGEIWC SPENLHHEDL EEEGGIEFPQ<br/>INYGRFNGKK YSFFYGCGFR HLVGDSLIV DVTNKTLRVW REEGFYPSEP VFVPVPGADE<br/>EDSGVILSVV ITPNQSESNF LLVLDKASFT ELGRAEVPVQ MPYGFHGTFTV PI <b>Sequence without tag. The proposed Purification-Tag is based on experiences 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.</b></p> |

## Product Details

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**Specificity:** If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

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**Characteristics:** **Key Benefits:**

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- 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.

If you are not interested in a full length protein, please contact us for individual protein fragments.

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.

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**Purity:** > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

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**Grade:** custom-made

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## Target Details

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**Target:** BC02

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**Alternative Name:** Bco2 ([BC02 Products](#))

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**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 (PubMed:11278918, PubMed:21106934). 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 (PubMed:11278918, PubMed:21106934). Through its function in carotenoids metabolism regulates oxidative stress and the production of important signaling molecules (PubMed:21106934). {ECO:0000269|PubMed:11278918, ECO:0000269|PubMed:21106934}.

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**Molecular Weight:** 60.1 kDa

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## Target Details

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UniProt: [Q99NF1](#)

## Application Details

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Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

## Handling

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Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months