

Datasheet for ABIN7552634
BCO2 Protein (AA 1-579) (His tag)



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Overview

| | |
|-------------------------------|---|
| Quantity: | 1 mg |
| Target: | BCO2 |
| Protein Characteristics: | AA 1-579 |
| Origin: | Human |
| Source: | HEK-293 Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This BCO2 protein is labelled with His tag. |

Product Details

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|-----------|---|
| Purpose: | Custom-made recombinant BCO2 Protein expressed in mammalian cells. |
| Sequence: | <p>MFFRVFLHFI RSHSATVDF LPVMVHRLPV FKRYMGNTPQ KKAVFGQCRG LPCVAPLLTT VEEAPRGISA RVWGHFPKWL NGSLLRIGPG KFEFGKDKYN HWFDGMALLH QFRMAKGTVT YRSKFLQSDT YKANSKNRI VISEFGTLAL PDPCKNVFER FMSRFELPGK AAAMTDNTNV NYVRYKGDYY LCTETNFMNK VDIETLEKTE KVDWSKFIAV NGATAHPHYD LDGTAYNMGN SFGPYGFSYK VIRVPPEKVD LGETIHGVQV ICSIASTEKG KPSYYHSFGM TRNYIIFIEQ PLKMNLWKIA TSKIRGKAFS DGISWEPQCN TRFHVVEKRT GQLLPGRYYS KPFVTFHQIN AFEDQGCVII DLCCQDNGRT LEVYQLQNLK KAGEGLDQVH NSAAKSFPRR FVLPLNVSLN APEGDNLSPY SYTSASAVKQ ADGTIWCSHE NLHQEDLEKE GGIEFPQIYY DRFSGKKYHF FYGCGFRHLV GDSLIKVDVV NKTCLKVWRED GFYPSEPVFV PAPGTNEEDG GVILSVVITP NQNESNFILV LDAKNFEELG RAEVPVQMPY GFHGTFIPI 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</p> |

contact us.

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.

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.

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

Grade: custom-made

Target Details

Target: BC02

Alternative Name: BC02 ([BC02 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

Target Details

UniProt: [Q9BYV7](#)

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 |