

Recombinant Human BCO2 Protein, GST-tagged

Cat. No. BCO2-173H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human BCO2 full-length ORF (BAB55379.1, 1 a.a. - 539 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
Description	BCDO2 catalyzes the asymmetric oxidative cleavage of beta-carotene in carotene metabolism (Kiefer et al., 2001 [PubMed 11278918]).[supplied by OMIM]
Form	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Molecular Mass	87.2 kDa
AA Sequence	MGNTPQKKAVFGQCRGLPCVAPLLTTVEEAPRGISARVWGHFPKWLNGLLRIGPG KFEFGKDKYNHWFDGMALLHQFRMAKGTVTYRSKFLQSDTYKANSANKRIVISEFG TLALPDPCKNVFERFMSRFELPGKAAAMTDNTNVNYVRYKGDYYLCTETNFMNKVD IETLEKTEKVDWSKFIAVNGATAHPHYDPDGTAYNMGNSFGPYGFSYKVIRVPPEKV DLGETIHGVQVICSIASTEKGKPSYYHSFGMTRNYIIFIEQPLKMNWLKIATSKIRGKAF SDGISWEPQCNTRFHVVEKRTGQLLPGRYYSKPFVTFHQINAFEDQGCVIIDLCCQD NGRTLEVYQLQNLRKAGEGLDQVHNSAAKSFPRRFVLPLNVSLNAPEGDNLSPLSY TSASAVKQADGTIWCSHENLHQEDLEKEGGIEFPQIYYDRFSGKKYHFFYGCGFRH LVGDSLIVKVDVWVREDGFYPSEPVFVPAPGTNEEDGGVILSVVITPNQNESNLLVL DAKNFEELGRAEVPVQMPYGFHGTFIPI

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
GENE INFORMATION	
Gene Name	BCO2 beta-carotene oxygenase 2 [Homo sapiens]
Official Symbol	BCO2
Synonyms	BCO2; beta-carotene oxygenase 2; BCDO2, beta carotene dioxygenase 2; beta,beta-carotene 9,10-oxygenase; B DIOX II; beta carotene 9; 10 oxygenase; FLJ34464; beta-carotene dioxygenase 2; beta-carotene 9,10 oxygenase; b,b-carotene-9,10-dioxygenase; beta,beta-carotene 9,10-dioxygenase variant 1; BCDO2; B-DIOX-II;
Gene ID	83875
mRNA Refseq	NM_001037290
Protein Refseq	NP_001032367
MIM	611740
UniProt ID	Q9BYV7

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