Recombinant Human BCO1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. BCO1-4900H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	BCMO1 MS Standard C13 and N15-labeled recombinant protein (NP_059125) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	Vitamin A metabolism is important for vital processes such as vision, embryonic development, cell differentiation, and membrane and skin protection. The protein encoded by this gene is a key enzyme in beta-carotene metabolism to vitamin A. It catalyzes the oxidative cleavage of beta,beta-carotene into two retinal molecules.
Molecular Mass	62.6 kDa
AA Sequence	MDIIFGRNRKEQLEPVRAKVTGKIPAWLQGTLLRNGPGMHTVGESRYNHWFDGLAL LHSFTIRDGEVYYRSKYLRSDTYNTNIEANRIVVSEFGTMAYPDPCKNIFSKAFSYLS HTIPDFTDNCLINIMKCGEDFYATSETNYIRKINPQTLETLEKVDYRKYVAVNLATSHP HYDEAGNVLNMGTSIVEKGKTKYVIFKIPATVPEGKKQGKSPWKHTEVFCSIPSRSLL SPSYYHSFGVTENYVIFLEQPFRLDILKMATAYIRSMSWASCLAFHREEKTYIHIIDQR TRQPVQTKFYTDAMVVFHHVNAYEEDGCIVFDVIAYEDNSLYQLFYLANLNQDFKEN SRLTSVPTLRRFAVPLHVDKNAEVGTNLIKVASTTATALKEEDGQVYCQPEFLYEGL ELPRVNYAHNGKQYRYVFATGVQWSPIPTKIIKYDILTKSSLKWREDDCWPAEPLFV PAPGAKDEDDGVILSAIVSTDPQKLPFLLILDAKSFTELARASVDVDMHMDLHGLFITD

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	MDWDTKKQAASEEQRDRASDCHGAPLTTRTRPLEQKLISEEDLAANDILDYKDDDD KV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 μg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	BCO1 beta-carotene oxygenase 1 [Homo sapiens (human)]
Official Symbol	BCO1
Synonyms	BCO1; beta-carotene oxygenase 1; BCO; BCDO; BCMO; BCDO1; BCMO1; beta,beta-carotene 15,15'-dioxygenase; beta,beta-carotene 15,15'-monooxygenase; beta-carotene 15, 15'-dioxygenase 1; beta-carotene 15,15'-monooxygenase 1; beta-carotene dioxygenase 1; EC 1.13.11.63
Gene ID	53630
mRNA Refseq	NM_017429
Protein Refseq	NP_059125

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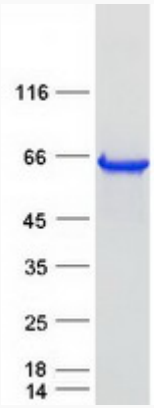
MIM	605748
UniProt ID	Q9HAY6
SDS-PAGE	

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