Recombinant Full Length Human BCO1 Protein, C-Flag-tagged

Cat. No. BCO1-1934HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human BCO1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	62.5 kDa
AA Sequence	MDIIFGRNRKEQLEPVRAKVTGKIPAWLQGTLLRNGPGMHTVGESRYNHWFDGLAL LHSFTIRDGEVYYR SKYLRSDTYNTNIEANRIVVSEFGTMAYPDPCKNIFSKAFSYLS HTIPDFTDNCLINIMKCGEDFYATSE TNYIRKINPQTLETLEKVDYRKYVAVNLATSHP HYDEAGNVLNMGTSIVEKGKTKYVIFKIPATVPEGKK QGKSPWKHTEVFCSIPSRSL LSPSYYHSFGVTENYVIFLEQPFRLDILKMATAYIRSMSWASCLAFHREE KTYIHIIDQ RTRQPVQTKFYTDAMVVFHHVNAYEEDGCIVFDVIAYEDNSLYQLFYLANLNQDFKE NSRL TSVPTLRRFAVPLHVDKNAEVGTNLIKVASTTATALKEEDGQVYCQPEFLYEG LELPRVNYAHNGKQYRY VFATGVQWSPIPTKIIKYDILTKSSLKWREDDCWPAEPLF VPAPGAKDEDDGVILSAIVSTDPQKLPFLL ILDAKSFTELARASVDVDMHMDLHGLFI

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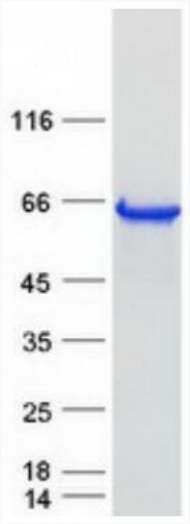
	TDMDWDTKKQAASEEQRDRASDCHGAPLT TRTRPLEQKLISEEDLAANDILDYKDD DDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Pathways	Metabolic pathways, Retinol metabolism
Full Length	Full L.

GENE INFORMATION

Gene Name	BCO1 beta-carotene oxygenase 1 [Homo sapiens (human)]
Official Symbol	BCO1
Synonyms	BCO; BCDO; BCMO; BCDO1; BCMO1
Gene ID	53630
mRNA Refseq	NM_017429.3

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Protein Refseq	NP_059125.2
MIM	605748
UniProt ID	Q9HAY6



Coomassie blue staining of purified BCO1 protein.

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