

Recombinant Mouse Bco1 Protein, Myc/DDK-tagged

Cat. No. Bco1-1852M Lot. No. (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length beta-carotene oxygenase 1 (Bco1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
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. Two alternatively spliced variants encoding different isoforms have been found for this gene.
Molecular Mass	60.3 kDa
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 after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method

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Storage Buffer 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name Bco1 beta-carotene oxygenase 1 [Mus musculus (house mouse)]

Official Symbol Bco1

Synonyms Bco1; beta-carotene oxygenase 1; Cm; Bcd; Bcdo; Bcmo; CMO1; Cmoi; Bcdo1; Bcmo1; beta-C; betaCM; beta-CD; betaCMOOX; beta,beta-carotene 15,15'-dioxygenase; beta,beta-carotene 15,15'-monooxygenase; beta-carotene 15, 15'-dioxygenase 1; beta-carotene 15,15' dioxygenase; beta-carotene 15,15'-monooxygenase; beta-carotene cleavage enzyme; beta-carotene dioxygenase 1; carotenoid-15,15'-oxygenase; EC 1.13.11.63

Gene ID 63857

mRNA Refseq NM_001163028

Protein Refseq NP_001156500

UniProt ID E9Q321

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