

Recombinant Human BCMO1 protein, MYC/DDK-tagged

Cat. No. BCMO1-26H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human BCMO1 fused with MYC/DDK tag at C-terminal was expressed in HEK293.
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.
Form	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	62.5 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Notes	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Concentration	>50 ug/mL as determined by microplate BCA method

GENE INFORMATION

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Gene Name	BCMO1 beta-carotene 15,15-monooxygenase 1 [Homo sapiens]
Official Symbol	BCMO1
Synonyms	BCMO1; beta-carotene 15,15-monooxygenase 1; BCDO, BCDO1, beta carotene 15, 15 dioxygenase 1; beta,beta-carotene 15,15-monooxygenase; BCMO; FLJ10730; beta-carotene dioxygenase 1; beta-carotene 15, 15-dioxygenase 1; BCO; BCDO; BCO1; BCDO1;
Gene ID	53630
mRNA Refseq	NM_017429
Protein Refseq	NP_059125
MIM	605748
UniProt ID	Q9HAY6
Chromosome Location	16q23.2
Pathway	Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of lipids and lipoproteins, organism-specific biosystem; Metabolism of steroid hormones and vitamins A and D, organism-specific biosystem; Retinol metabolism, organism-specific biosystem; Retinol metabolism, conserved biosystem; Vitamin A and carotenoid metabolism, organism-specific biosystem;
Function	beta-carotene 15,15-monooxygenase activity; beta-carotene 15,15-monooxygenase activity; metal ion binding; monooxygenase activity;

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