

Recombinant Human BCMO1, His-tagged

Cat. No. BCMO1-10192H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human BCMO1 protein, fused to His-tag, was expressed in E.coli and purified by Ni-sepharose.
Species	Human
Source	E.coli
ProteinLength	199-547a.a.
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.
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 300mM Imidazole and 0.7% Sarcosyl, 15%glycerol.

GENE INFORMATION

Gene Name	BCMO1 beta-carotene 15,15-monooxygenase 1 [Homo sapiens]
Official Symbol	BCMO1

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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;