

Recombinant Human BCMO1 293 Cell Lysate

Cat. No. BCMO1-8474HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for beta-carotene 15,15-monooxygenase 1 (BCMO1) is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
Components	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
Size	0.1 mg
Storage Instruction	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.

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Applications

ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the mixture at room temperature for 30 min). Load 5 ug lysate per lane.

GENE INFORMATION
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;

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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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