

Full-Length

BCMO1 (Human) Recombinant Protein (P01)

Catalog # H00053630-P01

Size 50 ug

Specification

Product Description	Human BCMO1 full-length ORF (ADR83052.1, 1 a.a. - 547 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MDIIFGRNRKEQLEPVRAKVTGKIPAWLQGTLLRNGPGMHTVGESRYNHWFDGLALLHSFTIRDGE VYYRSKYLRSDDTYNTNIEANRIVSEFGTMAYDPCKNIFSKAFSYLSHTIPDFTDNCLINIMKCGEDF YATSETNYIRKINPQTLETLEKVDYRKYVAVNLATSHPHYDEAGNVLMGTSVEKGKTKYVIFKIPAT VPEGKKQKGSPWKHTEVFCSPSRSLSPSYHSFGVTENYVIFLEQPFRLDILKMATAYIRSMW ASCLAFHREEKTYIHIDQRTQRPVQTKFYTDAMVVFHHVNAYEEDGCMFVDVIAYEDNSLYQLFYLA NLNQDFKENSRLTSVPTLRRFAVPLHVDKNAEVTNLKIVASTTATALKEEDGQVYCQPEFLYEG LELPRVNYAHNGKQYRYVFATGVQWSPIPTKIIKYDILTKSSLKWREDDCWPAEPLFVPAPGAKDE DDGVILSAVSTDPQKLPFLILDAKSFTELARASVDVDMHMDLHGLFITDMDWDTKKQAASEEQR DRASDCHGAPLT
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	60.2
Interspecies Antigen Sequence	Mouse (86); Rat (84)
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay

- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — BCMO1

Entrez GeneID	53630
GeneBank Accession#	HQ258298.1
Protein Accession#	ADR83052.1
Gene Name	BCMO1
Gene Alias	BCDO, BCDO1, BCMO, BCO, BCO1, FLJ10730
Gene Description	beta-carotene 15,15'-monooxygenase 1
Omim ID	605748
Gene Ontology	Hyperlink
Gene Summary	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. [provided by RefSeq]
Other Designations	beta-carotene 15, 15'-dioxygenase 1 beta-carotene 15, 15'-monooxygenase 1

Pathway

- [Metabolic pathways](#)
- [Retinol metabolism](#)

Disease

- [Diabetes Mellitus](#)
- [Genetic Predisposition to Disease](#)