

Bovine Beta-Carotene Oxygenase 1 (BCO1) ELISA Kit-Sandwich

Cat. No.: EK1F305

Product Type: Animal Immunoassay Kits

Size: 48T;96T

Product Overview

BioVenic Bovine Beta-carotene Oxygenase 1 (BCO1) ELISA Kit-Sandwich is designed for the quantitative determination of Bovine Beta-carotene Oxygenase 1 (BCO1) in serum, plasma, tissue homogenate, cell culture supernatant, cell extract, and other biological fluids using a Sandwich ELISA method. For research use only.

Specifications

Assay Type	ELISA-Sandwich
Specificity	The assay kit is specific for Bovine BCO1.
Target Species	Bovine
Species Reactivity	Bovine
Detection Range	0.32-20 ng/mL
Sensitivity	0.49 ng/mL
Reproducibility	Intra-Assay: CV < 10%; Inter-Assay: CV < 10%
Assay Time	Around 210 min
Sample Requirement	Serum, plasma, tissue homogenate, cell culture supernatant, cell extract, and other biological fluids.

Target Information

Beta-carotene oxygenase 1 is encoded by the *BCO1* gene in cattle. 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. Vitamin A is produced from dietary carotenoids such as β -carotene by centric cleavage via the enzyme BCO1. It is critical for vitamin A production and homeostasis.

Target/Biomarker	Bovine BCO1
Target Synonym	BCO1; BCDO; BCDO1; BCMO; Beta-carotene dioxygenase 1; Beta-carotene oxygenase 1; Beta,beta-carotene 15,15'-monooxygenase
Gene ID	534696

Shipping and Storage

This product is shipped with gel ice packs. It is recommended to store at 2-8 °C (Up to 6 months).

The product is for research use only. Not for commercial, prophylactic, diagnostic, or therapeutic applications. Please determine the purpose of the product before purchasing. For further information and inquiry, please contact us.