



Human carnitine *O*-palmitoyltransferase 1, liver isoform (CPT1A) ELISA kit

Cat. No.:	OB0625WXX-420
Assay Type:	Quantitative sandwich ELISA
Target Species:	Human
Assay Target:	CPT1A
Size:	48T; 96T

This product is for research use only and is not intended for diagnostic use.

Product Overview

Description	Human carnitine <i>O</i> -palmitoyltransferase 1, liver isoform (CPT1A) ELISA kit is an ELISA-based <i>in vitro</i> research tool designed specifically for the quantitative detection of CPT1A in human with a range of 1.56-50 ng/mL and a specificity of 0.1 ng/mL.
Assay Principle	The kit is based on the CPT1A antibody-CPT1A antigen interaction (immunosorbent) and an HRP colorimetric detection system to detect CPT1A antigen targets in samples.
Background	CPT1A, the liver isoform of carnitine <i>O</i> -palmitoyltransferase 1, is the rate-limiting enzyme located in the mitochondrial outer membrane that controls the transport of long-chain fatty acids into mitochondria for beta-oxidation.
Synonyms	CPT1-L; Carnitine <i>O</i> -palmitoyltransferase I, liver isoform
Formula Weight	88,368 Da
Applications	Human carnitine <i>O</i> -palmitoyltransferase 1, liver isoform (CPT1A) ELISA kit is used to quantify CPT1A in undiluted original human body fluids, tissue homogenates, secretions, and feces of humans, providing data to support a wide range of studies.
Research Area	Lipid metabolism; Obesity research

Specification



Sample Type	Undiluted original human body fluids; Tissue homogenates; Secretions; Feces samples
Detection Range	1.56-50 ng/mL
Sensitivity	0.1 ng/mL
Precision (Intra-assay)	CV<15%
Precision (Inter-assay)	CV<15%
Cross-reactivity	No significant cross-reactivity or interference was observed.
Storage	Store at 2-8°C.