



Human ATP-citrate synthase (ACLY) ELISA kit (1.563-100 IU/mL)

Cat. No.:	OB0525WXX-098
Assay Type:	Quantitative sandwich ELISA
Target Species:	Human
Assay Target:	ACLY
Size:	48T; 96T

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

Product Overview

Description	Human ATP-citrate synthase (ACLY) ELISA kit (1.563-100 IU/mL) is a ready-to-use ELISA kit for analyzing human ACLY levels with a detection range of 1.563-100 IU /mL and a sensitivity of 0.938 IU/mL.
Assay Principle	The kit is based on the sandwich ELISA technique. The anti-human ACLY antibody is pre-coated on a 96-well plate. The detection antibody is a biotin-conjugated anti-human ACLY antibody. Standards, test samples, and biotin-conjugated detection antibody are subsequently added to the wells and washed with buffer. HRP-streptavidin is added, and the unbound conjugate is washed away with washing solution. TMB substrate is used to visualize the HRP enzymatic reaction. TMB produces a blue product catalyzed by HRP, which turns yellow upon addition of an acidic termination solution. The density of the yellow color is proportional to the amount of human ACLY sample captured in the plate. The concentration of human ACLY can be calculated by reading the absorbance of the external standard method at 450 nm using a microplate reader.
Background	ACLY is the major enzyme responsible for the synthesis of cytoplasmic acetyl-CoA in many tissues. The product it catalyzes, acetyl-CoA, is used in several important biosynthetic pathways, including cholesterologenesis and lipogenesis.
Synonyms	ATP-citrate lyase; ACL; Citrate cleavage enzyme; EC 2.3.3.8
Formula Weight	91,099 Da



Applications

Human ATP-citrate synthase (ACLY) ELISA kit (1.563-100 IU/mL) is designed for the *in vitro* quantitative analysis of ACLY levels in human serum, plasma, cell culture supernatant, cell or tissue lysate, and other liquid samples.

Research Area

Carbohydrate metabolism; Lipid metabolism; Biosynthesis; Obesity

Specification

Sample Type

Serum; Plasma; Cell culture supernatant; Cell or tissue lysate; Other liquid samples

Detection Range

1.563-100 IU/mL

Sensitivity

0.938 IU/mL

Cross-reactivity

No significant cross-reactivity or interference was observed.

Storage

Store at -20°C (microplate, standard) and 2-8°C (other reagents).