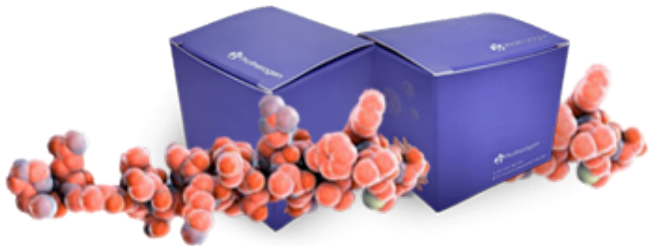
Protheragen Obesity



Human NADP-dependent malic enzyme ELISA kit-Quantitative sandwich

Cat. No.:	0126WXX-1028
Assay Type:	Quantitative sandwich ELISA
Target Species:	Human
Assay Target:	NADP-dependent malic enzyme
Size:	48T; 96T

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

Product Overview

Description	Human NADP-dependent malic enzyme ELISA kit-Quantitative sandwich is an ELISA-ba sed *in vitro* research tool designed specifically for the quantitative det ection of NADP-dependent malic enzyme in human samples with a range of 0.2- 60 n g/mL and a minimum detectable dose (sensitivity) of 0.107 ng/mL. The kit is high ly sensitive and easy to use.
Assay Principle	The ELISA analytical biochemical technique is based on NADP-dependent malic enzy me antibody-NADP-dependent malic enzyme antigen interactions (immunosorbency) an d an HRP colorimetric detection system to detect NADP-dependent malic enzyme ant igen targets in samples.
Background	NADP-dependent malic enzyme is a crucial metabolic enzyme. Its primary function is to catalyze the conversion of malate to pyruvate while generating a key cofac tor—reduced nicotinamide adenine dinucleotide phosphate (NADPH). This renders it essential for fatty acid and cholesterol synthesis, as well as antioxidant defe nse mechanisms. Obesity constitutes a chronic inflammatory state frequently acco mpanied by elevated oxidative stress levels within cells and tissues. Investigat ing alterations in NADP-dependent malic enzyme-related pathways offers deeper in sights into the pathophysiology of obesity.
Synonyms	Malic enzyme; ME; ME1; NADPH-malic enzyme; Decarboxylating malate dehydrogenase; Malate dehydrogenase (decarboxylating) ($NADP^+$)
Formula Weight	55,165 Da

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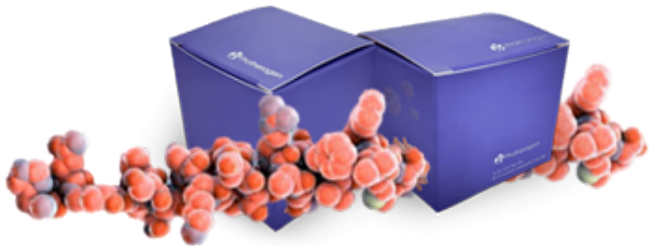

Applications	Human NADP-dependent malic enzyme ELISA kit-Quantitative sandwich is used to qua ntify NADP-dependent malic enzyme in serum, plasma, cell culture supernatant, ce ll lysates, and tissue homogenates of human, providing data to support research in a wide range of areas, including metabolism, oxidative stress, obesity, *et c*.
Research Area	Metabolism; Oxidative stress; Obesity

Specification

Sample Type	Serum; Plasma; Cell culture supernatants; Cell lysates; Tissue homogenates
Detection Range	0.2- 60 ng/mL
Sensitivity	0.107 ng/mL
Precision (Intra-assay)	CV<8%
Precision (Inter-assay)	CV<10%
Cross-reactivity	No significant cross-reactivity or interference was observed.
Storage	Store at 2-8°C.

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