

Recombinant Human ME1 293 Cell Lysate

Cat. No. ME1-4401HCL Lot. No. (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for malic enzyme 1, NADP(+)-dependent, cytosolic (ME1) is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
Components	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
Size	0.1 mg
Storage Instruction	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Applications

ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the mixture at room temperature for 30 min). Load 5 ug lysate per lane.

GENE INFORMATION
Gene Name

ME1 malic enzyme 1, NADP(+)-dependent, cytosolic [Homo sapiens]

Official Symbol

ME1

Synonyms

ME1; malic enzyme 1, NADP(+)-dependent, cytosolic; NADP-dependent malic enzyme; NADP-ME; malate dehydrogenase; malic enzyme 1, soluble; Malic enzyme, cytoplasmic; pyruvic-malic carboxylase; MES; HUMNDME;

Gene ID

4199

mRNA Refseq

NM_002395

Protein Refseq

NP_002386

MIM

154250

UniProt ID

P48163

**Chromosome
Location**

6q12

Pathway

Fatty acid, triacylglycerol, and ketone body metabolism, organism-specific biosystem; Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of lipids and lipoproteins, organism-specific biosystem; PPAR signaling pathway, organism-specific biosystem; PPAR signaling pathway, conserved

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biosystem; PPARA Activates Gene Expression, organism-specific biosystem;

Function

ADP binding; NAD binding; NADP binding; electron carrier activity; malate dehydrogenase (oxaloacetate-decarboxylating) (NADP+) activity; malate dehydrogenase (oxaloacetate-decarboxylating) (NADP+) activity; malate dehydrogenase (oxaloacetate-decarboxylating) activity; malic enzyme activity; manganese ion binding; metal ion binding; oxidoreductase activity;

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