

Recombinant Human ME3 293 Cell Lysate

Cat. No. ME3-4399HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species Human

Source HEK293

Description

Antigen standard for malic enzyme 3, NADP(+)-dependent, mitochondrial (ME3), nuclear gene encoding mitochondrial protein, transcript variant 1 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.

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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

ME3 malic enzyme 3, NADP(+)-dependent, mitochondrial [Homo sapiens]

Official Symbol

ME3

Synonyms

ME3; malic enzyme 3, NADP(+)-dependent, mitochondrial; NADP-dependent malic enzyme, mitochondrial; malate dehydrogenase; pyruvic-malic carboxylase; malic enzyme, NADP+-dependent, mitochondrial; mitochondrial NADP(+)-dependent malic enzyme 3; NADP-ME; FLJ34862;

Gene ID

10873

mRNA Refseq

NM_001014811

Protein Refseq

NP_001014811

MIM

604626

UniProt ID

Q16798

Chromosome Location

11cen-q22.3

Pathway

Metabolic pathways, organism-specific biosystem; Pyruvate metabolism, organism-specific biosystem; Pyruvate metabolism, conserved biosystem; gluconeogenesis I, organism-specific biosystem;

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Function

NAD binding; cofactor binding; malate dehydrogenase (oxaloacetate-decarboxylating) (NADP+) activity; malate dehydrogenase (oxaloacetate-decarboxylating) activity; malic enzyme activity; metal ion binding; oxidoreductase activity;

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