

Recombinant Human MTHFR 293 Cell Lysate

Cat. No. MTHFR-4081HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for 5,10-methylenetetrahydrofolate reductase (NADPH) (MTHFR) 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

MTHFR methylenetetrahydrofolate reductase (NAD(P)H) [Homo sapiens]

Official Symbol

MTHFR

Synonyms

MTHFR; methylenetetrahydrofolate reductase (NAD(P)H); 5,10 methylenetetrahydrofolate reductase (NADPH); methylenetetrahydrofolate reductase; 5,10-methylenetetrahydrofolate reductase (NADPH);

Gene ID

4524

mRNA Refseq

NM_005957

Protein Refseq

NP_005948

MIM

607093

UniProt ID

P42898

**Chromosome
Location**

1p36.3

Pathway

Fluoropyrimidine Activity, organism-specific biosystem; Folate Metabolism, organism-specific biosystem; Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of folate and pterines, organism-specific biosystem; Metabolism of vitamins and cofactors, organism-specific biosystem;

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	Metabolism of water-soluble vitamins and cofactors, organism-specific biosystem;
Function	methylenetetrahydrofolate reductase (NADPH) activity; methylenetetrahydrofolate reductase (NADPH) activity; modified amino acid binding; oxidoreductase activity;

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