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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