

Recombinant Human MTHFR protein, His & T7-tagged

Cat. No. MTHFR-1536H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human MTHFR aa. (Met1~Arg325 (Accession # P42898) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Met1~Arg325
Description	The protein encoded by this gene catalyzes the conversion of 5,10-methylenetetrahydrofolate to 5-methyltetrahydrofolate, a co-substrate for homocysteine remethylation to methionine. Genetic variation in this gene influences susceptibility to occlusive vascular disease, neural tube defects, colon cancer and acute leukemia, and mutations in this gene are associated with methylenetetrahydrofolate reductase deficiency.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 39.8kDa
Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Purity	>95%
Applications	SDS-PAGE; WB; ELISA; IP.

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Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.
Isoelectric Point	5.5

GENE INFORMATION

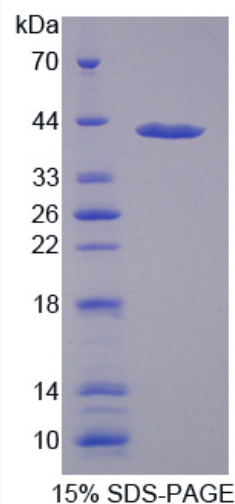
Gene Name	MTHFR methylenetetrahydrofolate reductase [Homo sapiens (human)]
Official Symbol	MTHFR
Synonyms	MTHFR; methylenetetrahydrofolate reductase; 5,10-methylenetetrahydrofolate reductase (NADPH); methylenetetrahydrofolate reductase (NAD(P)H)
Gene ID	4524
mRNA Refseq	NM_001330358.1
Protein Refseq	NP_001317287.1
UniProt ID	P42898

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SDS-PAGE



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