

Recombinant Human MTHFD1 Protein, MYC/DDK-tagged

Cat. No. MTHFD1-2185H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human MTHFD1 protein, fused to MYC/DDK-tagged at C-terminus, was expressed in HEK293
Species	Human
Source	HEK293
ProteinLength	1-935 aa
Description	This gene encodes a protein that possesses three distinct enzymatic activities, 5,10-methylenetetrahydrofolate dehydrogenase, 5,10-methenyltetrahydrofolate cyclohydrolase and 10-formyltetrahydrofolate synthetase. Each of these activities catalyzes one of three sequential reactions in the interconversion of 1-carbon derivatives of tetrahydrofolate, which are substrates for methionine, thymidylate, and de novo purine syntheses. The trifunctional enzymatic activities are conferred by two major domains, an aminoterminal portion containing the dehydrogenase and cyclohydrolase activities and a larger synthetase domain. [provided by RefSeq, Jul 2008]
Form	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	101.4 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining

 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

Concentration >50 ug/mL as determined by microplate BCA method

GENE INFORMATION

Gene Name MTHFD1 methylenetetrahydrofolate dehydrogenase (NADP+ dependent) 1, methenyltetrahydrofolate cyclohydrolase, formyltetrahydrofolate synthetase [Homo sapiens]

Official Symbol MTHFD1

Synonyms MTHFC; MTHFD

Gene ID 4522

mRNA Refseq NM_005956

Protein Refseq NP_005947

MIM 172460

UniProt ID P11586

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