

Recombinant Mouse Mthfd1 Protein, MYC/DDK-tagged

Cat. No. Mthfd1-370M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of full-length mouse methylenetetrahydrofolate dehydrogenase (NADP+ dependent), methenyltetrahydrofolate cyclohydrolase, formyltetrahydrofolate synthase (Mthfd1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	This gene encodes a trifunctional cytoplasmic enzyme. The encoded protein functions as a methylenetetrahydrofolate dehydrogenase, a methenyltetrahydrofolate cyclohydrolase, and a formyltetrahydrofolate synthase. The encoded enzyme functions in de novo synthesis of purines and thymidylate and in regeneration of methionine from homocysteine.
Molecular Mass	101.3 kDa
Purity	>80%, as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 ug/mL as determined by microplate BCA method

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Storage Buffer 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name Mthfd1 methylenetetrahydrofolate dehydrogenase (NADP+ dependent), methenyltetrahydrofolate cyclohydrolase, formyltetrahydrofolate synthase [*Mus musculus* (house mouse)]

Official Symbol Mthfd1

Synonyms Mthfd1; methylenetetrahydrofolate dehydrogenase (NADP+ dependent), methenyltetrahydrofolate cyclohydrolase, formyltetrahydrofolate synthase; Dcs; Mthfd; E430024A07Rik; C-1-tetrahydrofolate synthase, cytoplasmic; C1-THF synthase; C1-tetrahydrofolate synthase; EC 1.5.1.5; EC 3.5.4.9; EC 6.3.4.3

Gene ID 108156

mRNA Refseq NM_138745

Protein Refseq NP_620084

UniProt ID Q922D8

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