

Recombinant Full Length Human DHFR Protein, C-Flag-tagged

Cat. No. DHFR-1590HFL Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human DHFR Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	Dihydrofolate reductase converts dihydrofolate into tetrahydrofolate, a methyl group shuttle required for the de novo synthesis of purines, thymidylic acid, and certain amino acids. While the functional dihydrofolate reductase gene has been mapped to chromosome 5, multiple intronless processed pseudogenes or dihydrofolate reductase-like genes have been identified on separate chromosomes. Dihydrofolate reductase deficiency has been linked to megaloblastic anemia. Several transcript variants encoding different isoforms have been found for this gene.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	21.3 kDa
AA Sequence	MVGS LNCIVAVSQNMGIGKNGDLPWPPLRNEFRYFQRMTTSSVEGKQNLVIMGKK TWFSIPEKNRPLKG RINLVLSRELKEPPQGAHFLSRSLDDALKLTEQPELANKVDMV WIVGGSSVYKEAMNHPGHLKLFVTRIM QDFESDTFFPEIDLEKYKLLPEYPGVLSVDVQEEKGIKYKFEVYEKNDTRTRPLEQKLI SEEDLAANDILDYKDDDDKV

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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.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Stem cell - Pluripotency
Protein Pathways	Folate biosynthesis, Metabolic pathways, One carbon pool by folate
Full Length	Full L.

GENE INFORMATION

Gene Name	DHFR dihydrofolate reductase [Homo sapiens (human)]
Official Symbol	DHFR
Synonyms	DYR; DHFR1; DHFRP1
Gene ID	1719
mRNA Refseq	NM_000791.4
Protein Refseq	NP_000782.1

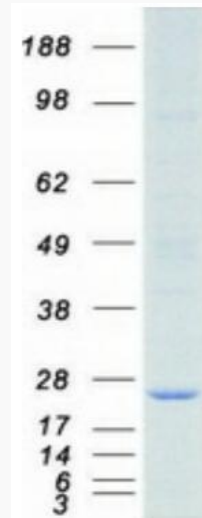
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MIM 126060

UniProt ID P00374



Coomassie blue staining of purified DHFR protein.

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