

Active Recombinant Full Length Human DHFR Protein, His tagged

Cat. No. DHFR-375H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Dihydrofolate reductase protein (1-187aa), fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
ProteinLength	1-187aa
Description	Dihydrofolate reductase converts dihydrofolate into tetrahydrofolate, a methyl group shuttle required for the de novo synthesis of purines, thymidylc 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	Liquid in 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl 2mM DTT, and 30% glycerol
Bio-activity	Specific activity is > 2000 pmol/min/μg, and is defined as the amount of enzyme that converts 1.0 pmole of dihydrofolic acid to tetrahydrofolic acid per minute at pH 6.5 at 25 centigrade.

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Molecular Mass	23.6 kDa (207aa) confirmed by MALDI-TOF
AASequence	MVGSLNCIVAVSQNMGIGKNGDLPWPPLRNEFRYFQRM TTTSSVEGKQNLVIMGKK TWFSIPEKNRPLKGRINLVLSRELKEPPQGAHFLSRSLDDALKLTEQPELANKVDMV WIVGGSSVYKEAMNHPGHLKLFVTRIMQDFESDTFFPEIDLEKYKLLPEYPGVLSDV QEEKGIKYKFEVYEKND
Purity	> 95% by SDS-PAGE
Applications	SDS-PAGE, Enzyme Activity
Notes	For research use only. This product is not intended or approved for human, diagnostics or veterinary use.
Storage	Can be stored at +2 to +8 centigrade for 1 week. For long term storage, aliquot and store at -20 to -80 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	1 mg/mL (determined by Bradford assay)
Reference	1. Loveridge EJ., et al. (2009) Biochemistry. 48(25):5922-33. 2. Hu Y., et al. (2009) J Cell Biol. 185(1):87-100.

GENE INFORMATION

Gene Name	DHFR dihydrofolate reductase [Homo sapiens (human)]
Official Symbol	DHFR
Synonyms	DHFR; dihydrofolate reductase; DYR; DHFRP1;
Gene ID	1719

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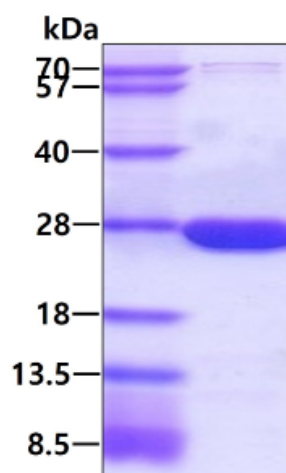
mRNA Refseq [NM_000791](#)

Protein Refseq [NP_000782](#)

MIM [126060](#)

UniProt ID [P00374](#)

SDS-PAGE



3 µg by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

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