

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

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

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Full Length Human DHFR Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Source</b>           | Mammalian Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Description</b>      | 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. |
| <b>Form</b>             | 25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Molecular Mass</b>   | 21.3 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>AA Sequence</b>      | MVGSLNCIVAVSQNMGIGKNGDLPWPPLRNEFRYFQRM TTTSSVEGKQNLVIMGKK<br>TWFSIPEKNRPLKG RINLVLSRELKEPPQGAHFLSRSLDDALKLTEQPELANKVDMV<br>WIVGGSSVYKEAMNHPGHLKLFVTRIM<br>QDFESDTFFPEIDLEKYKLLPEYPGVLSDVQEEKGIKYKFEVYEKNDTRTRPLEQKLI<br>SEEDLAANDILDYKDDDDKV                                                                                                                                                                                                                                                                                                                              |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>           | > 80% as determined by SDS-PAGE and Coomassie blue staining.                                                                                  |
| <b>Stability</b>        | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. |
| <b>Storage</b>          | Store at -80 centigrade.                                                                                                                      |
| <b>Concentration</b>    | >50 ug/mL as determined by microplate BCA method.                                                                                             |
| <b>Preparation</b>      | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.                              |
| <b>Protein Families</b> | Druggable Genome, Stem cell - Pluripotency                                                                                                    |
| <b>Protein Pathways</b> | Folate biosynthesis, Metabolic pathways, One carbon pool by folate                                                                            |
| <b>Full Length</b>      | Full L.                                                                                                                                       |

## GENE INFORMATION

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

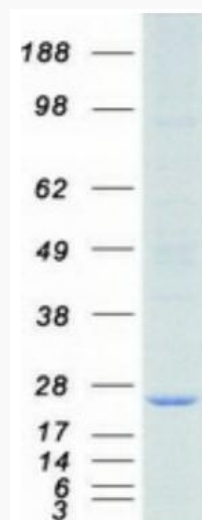
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MIM 126060

UniProt ID P00374



Coomassie blue staining of purified DHFR protein.

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