

**Human recombinant protein DHFR**  
**Human Recombinant DHFR**  
**Catalog # PBV10618r****Specification****Human recombinant protein DHFR - Product info**

Primary Accession	<a href="#">P00374</a>
Concentration	1
Calculated MW	23.6 kDa (207 aa, 1-187 aa + NT His-Tag) KDa

**Human recombinant protein DHFR - Additional Info**

Gene ID	1719
Gene Symbol	DHFR
<b>Other Names</b>	
Dihydrofolate reductase.	
Gene Source	Human
Source	E. Coli
Assay&Purity	SDS-PAGE; ≥95%
Assay2&Purity2	N/A;
Recombinant	Yes
Results	1.5 - 2.5 units/ml
Sequence	MGSSHHHHHH SGLVPRGSH MVGSLNCIVA VSQNMGIGKN GDLWPPLRN EFRYFQRM TSSVEGKQNL VIMGKKTWFS IPEKNRPLKG RINLVLSREL KEPPQGAHFL SRSLDDALKL TEQPELANKV DMVWIVGGSS VYKEAMNHPG HLKLFVTRIM QDFESDTFFP EIDLEKYKLL PEYPGVLSDV QEEKGIKYKF EVYEKND

**Format**  
Liquid**Storage**

-80°C; 1 mg/ml solution in 20 mM Tris-HCl buffer (pH 8.0) containing 0.1 M NaCl, 2 mM DTT and 30% glycerol.

**Human recombinant protein DHFR - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)

- [Flow Cytometry](#)
- [Cell Culture](#)

### **Human recombinant protein DHFR - Images**

### **Human recombinant protein DHFR - Background**

DHFR, also known as Dihydrofolate reductase, is an enzyme that reduces dihydrofolic acid to tetrahydrofolic acid, using NADPH as electron donor, which can be converted to tetrahydrofolate cofactors used in 1-carbon transfer chemistry. Dihydrofolate reductase deficiency has been linked to megaloblastic anemia. Human dihydrofolate reductase has been used in a study to investigate the stable expression of green fluorescent protein and the targeted disruption of thioredoxin peroxidase-1 gene in *Babesia bovis*. Human dihydrofolate reductase has also been used in a study to investigate the structural analysis of human dihydrofolate reductase as a binary complex.

### **Human recombinant protein DHFR - References**

Chen M.-J., et al. *J. Biol. Chem.* 259:3933-3943(1984).  
Masters J.N., et al. *Gene* 21:59-63(1983).  
Yang J.K., et al. *J. Mol. Biol.* 176:169-187(1984).  
Ota T., et al. *Nat. Genet.* 36:40-45(2004).  
Schmutz J., et al. *Nature* 431:268-274(2004).