

## DHFR Protein, Human (His)

Cat. No.:	HY-P79328
Synonyms:	Dihydrofolate reductase; DHFR
Species:	Human
Source:	E. coli
Accession:	P00374 (M1-D187)
Gene ID:	1719
Molecular Weight:	

### PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.2 µm filtered solution of 50 mM Tris-HCl, pH7.5, 200 mM NaCl, 20% glycerol.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	Please use rapid thawing with running water to thaw the protein.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

### DESCRIPTION

Background	Dihydrofolate reductase (DHFR) stands as a pivotal enzyme in folate metabolism, playing a crucial role in multiple essential pathways. It contributes significantly to the de novo mitochondrial thymidylate biosynthesis pathway, catalyzing reactions vital for de novo glycine and purine synthesis, as well as the synthesis of DNA precursors. Beyond its catalytic functions, DHFR exhibits the ability to bind its own mRNA and that of DHFR2, thereby suggesting a regulatory role in the control of its own expression and potentially influencing related cellular processes.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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