

**DHFR Blocking Peptide (N-term)**

Synthetic peptide

Catalog # BP20626a

**Specification**

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**DHFR Blocking Peptide (N-term) - Product Information**

Primary Accession

[P00374](#)

Other Accession

[P00377](#), [P00375](#), [P00376](#)**DHFR Blocking Peptide (N-term) - Additional Information****Gene ID** 1719**Other Names**

Dihydrofolate reductase, DHFR

**Target/Specificity**

The synthetic peptide sequence is selected from aa 16-50 of HUMAN DHFR

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**DHFR Blocking Peptide (N-term) - Protein Information****Name** DHFR**Function**

Key enzyme in folate metabolism. Contributes to the de novo mitochondrial thymidylate biosynthesis pathway. Catalyzes an essential reaction for de novo glycine and purine synthesis, and for DNA precursor synthesis. Binds its own mRNA and that of DHFR2.

**Cellular Location**

Mitochondrion {ECO:0000250|UniProtKB:P00375}. Cytoplasm {ECO:0000250|UniProtKB:P00375}

**Tissue Location**

Widely expressed in fetal and adult tissues, including throughout the fetal and adult brains and whole blood Expression is higher in the adult brain than in the fetal brain

**DHFR Blocking Peptide (N-term) - Protocols**

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

- [Blocking Peptides](#)

#### **DHFR Blocking Peptide (N-term) - Images**

#### **DHFR Blocking Peptide (N-term) - Background**

Key enzyme in folate metabolism. Contributes to the de novo mitochondrial thymidylate biosynthesis pathway. Catalyzes an essential reaction for de novo glycine and purine synthesis, and for DNA precursor synthesis. Binds its own mRNA and that of DHFRL1.

#### **DHFR Blocking Peptide (N-term) - 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).  
Schmutz J., et al. Nature 431:268-274(2004).  
Banka S., et al. Am. J. Hum. Genet. 88:216-225(2011).