

DHFR Blocking Peptide (N-term)

Synthetic peptide

Catalog # BP20626a

Specification

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).