



LKT Laboratories, Inc.

## Cytarabine

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### Product Information

**Product ID** C9778

**CAS No.** 147-94-4

**Chemical Name** 4-Amino-1-β-D-arabinofuranosyl-2(1H)-pyrimidinone

**Synonym** Alexan, Arabitin, Ara-C, Cytosar, Erpalfa, Iretin, Udicil

**Formula** C<sub>9</sub>H<sub>13</sub>N<sub>3</sub>O<sub>5</sub>

**Formula Wt.** 243.22

**Melting Point** 212-213 °C

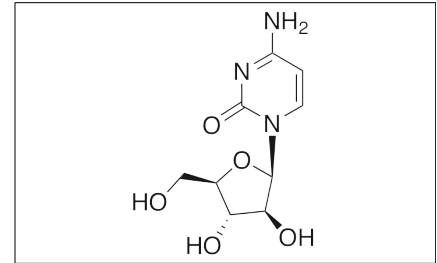
**Purity** ≥98%

**Solubility** Soluble in water to 100 mM,  
DMSO to 50 mM, ethanol.

**Store Temp** Ambient

**Ship Temp** Ambient

**Description** Cytarabine is a cytosine nucleoside analog that exhibits anticancer chemotherapeutic and antiviral activities. This antimetabolite is clinically used to treat chronic lymphocytic leukemia (CLL), acute lymphocytic leukemia (ALL), and non-Hodgkin lymphoma. Cytarabine inhibits RNA polymerase and DNA polymerase, preventing DNA synthesis. Although it is too toxic for antiviral use, cytarabine inhibits the growth or replication of herpesviruses such as varicella-zoster and cytomegalovirus (CMV).



**Bulk quantities available upon request**

| Product ID | Size   |
|------------|--------|
| C9778      | 100 mg |
| C9778      | 500 mg |
| C9778      | 1 g    |

**References** Abdel-Aziz W, Jiang HY, Hickey RJ, et al. Ara-C affects formation of cancer cell DNA synthesis replication intermediates. *Cancer Chemother Pharmacol.* 2000;45(4):312-9. PMID: 10755320.

Hiddemann W. Cytosine arabinoside in the treatment of acute myeloid leukemia: the role and place of high-dose regimens. *Ann Hematol.* 1991 Apr;62(4):119-28. PMID: 2031974.

Lauter CB, Bailey EJ, Lerner AM. Assessment of cytosine arabinoside as an antiviral agent in humans. *Antimicrob Agents Chemother.* 1974 Nov;6(5):598-602. PMID: 15825312.

**Caution:** This product is intended for laboratory and research use only. It is not for human or drug use.