



# LKT Laboratories, Inc.

## Cyclocytidine Hydrochloride

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### Product Information

**Product ID** C9677

**CAS No.** 10212-25-6

**Chemical Name** 2,2'-Anhydro-1-β-D-arabinofuranosylcytosine hydrochloride

**Synonym** Ancitabine hydrochloride, O-2,2'-Cyclocytidine monohydrochloride

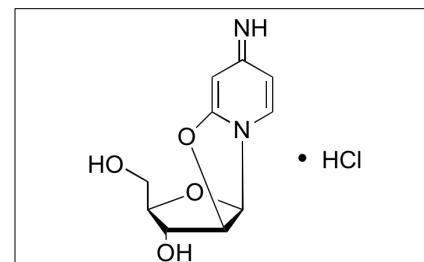
**Formula** C<sub>9</sub>H<sub>11</sub>N<sub>3</sub>O<sub>4</sub> • HCl

**Formula Wt.** 261.66

**Melting Point** 269-270°C

**Purity** ≥98%

**Solubility** Soluble in water, micro-soluble alcohol.



### Pricing and Availability

**Bulk quantities available upon request**

| Product ID | Size | List Price |
|------------|------|------------|
| C9677      | 1 g  | \$71.70    |
| C9677      | 5 g  | \$299.70   |

**Store Temp** Ambient

**Ship Temp** Ambient

**Description** Cyclocytidine is a pyrimidine nucleoside analog that inhibits DNA synthesis; it exhibits antiviral and anticancer chemotherapeutic activities. Cyclocytidine induces degranulation of granular tubules in research models. This compound inhibits proliferation of herpes simplex virus (HSV-1) and cytomegalovirus (CMV) in vitro. Previously, cyclocytidine has been used to treat some leukemias, but has since largely been replaced in clinical use. TEST!!!!!!

**References** Thomopoulos GN, Garrett JR, Proctor GB. Ultrastructural histochemical studies of secretory granule replenishment in rat submandibular granular tubules after cyclocytidine-induced secretion. J Submicrosc Cytol Pathol. 2002 Jul;34(3):279-89. PMID: 12408361.

Chen Z, Song J, Chen K. Anti-herpes simplex virus action of combined therapy with cyclocytidine and ganciclovir. Zhonghua Yan Ke Za Zhi. 1996 Jan;32(1):25-8. PMID: 8758385.

Nakamura K, Eizuru Y, Kumura K, et al. Antiviral effect of antileukemic drugs N4-behenoyl-1-beta-D-arabinofuranosylcytosine (BH-AC) and 2,2'-anhydro-1-beta-D-arabinofuranosylcytosine (cyclo-C) against human cytomegalovirus. J Med Virol. 1990 Jun;31(2):141-7. PMID: 1696958.

Movassaghi N, Higgins G, Pyesmany A, et al. Evaluation of cyclocytidine in reinduction and maintenance therapy of children with acute nonlymphocytic leukemia previously treated with cytosine arabinoside: a report from Children's Cancer Study Group. Med Pediatr Oncol. 1984;12(5):352-6. PMID: 6208468.

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