



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

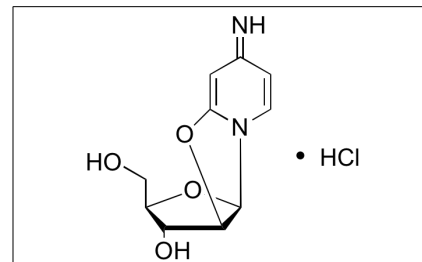
Formula C₉H₁₁N₃O₄ • HCl

Formula Wt. 261.66

Melting Point 269-270°C

Purity ≥98%

Solubility Soluble in water, micro-soluble alcohol.



Bulk quantities available upon request

Product ID	Size
C9677	1 g
C9677	5 g

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.

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.