

ProductInformation

CYTOSINE ß-D-ARABINOFURANOSIDE, Hydrochloride Sigma Prod. No. C6645

CAS NUMBER: 69-74-9

SYNONYMS: AraC, Arabinosylcytosine,

1-ß-D-Arabinofuranosylcytosine, Cytabarine, Cytosine

Arabinoside

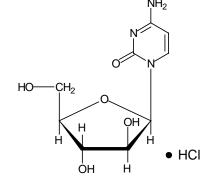
PHYSICAL PROPERTIES:

Appearance: white powder $E^{mM}(280nm) = 13.3 (0.1 M HCI)$

 $A_{250nm}/A_{260nm} = 0.43$ $A_{280nm}/A_{260nm} = 2.20$

Molecular Formula: C₉H₁₃N₃O₅•HCl

Formula weight: 279.7 Purity: Approx. 99% by HPLC



PHYSICAL DESCRIPTION:

AraC is synthetically prepared and purified by recrystallization.

STABILITY / STORAGE AS SUPPLIED:

AraC is sensitive to light. It is recommended to store this product at 2-8°C and in dark. If stored as recommended, it will have a shelf-life of up to 4 years.

SOLUBILITY / SOLUTION STABILITY:

Sigma routinely tests the solubility of this product in water at a concentration of 50 mg/mL yielding a clear, colorless solution.

Solutions stored at -20°C and protected from light will be stable for up to one year. Solutions stored at room temperature in physiological buffer will be stable for 24 hours.¹

USAGE / APPLICATIONS:

AraC is a selective inhibitor of DNA synthesis that does not affect RNA synthesis in mammalian cells.² It is used as an antineoplastic and antiviral agent.¹

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REFERENCES:

- 1. Martindale: The Extra Pharmacopoeia, 30th ed., 471-473 (1993).
- 2. Data for Biochemical Research, 3rd ed., 260-261 (1986).

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