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## Product Data Sheet

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Product Name: Carbodine  
Cat. No.: GC35606

### Chemical Properties

Cas. No. 71184-20-8

SMILES O=C1N=C(N)C=CN1[C@H]2[C@H](O)[C@H](O)[C@@H](CO)C2

Formula  $C_{10}H_{15}N_3O_4$  M.Wt 241.24

Solubility Soluble in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure

### Background

Carbodine (Carbocyclic cytidine) is a broad-spectrum antiviral agent active against DNA viruses, (+)RNA viruses, (-)RNA viruses, paramyxovirus, rhabdovirus and (+/-)RNA viruses, targets CTP synthetase that converts UTP to CTP. Carbodine (Carbocyclic cytidine) possesses significant antiviral activity against influenza virus types A0/PR-8/34 and A2/Aichi/2/68 in vitro [1][2].

[1]. De Clercq E, et al. Broad-spectrum antiviral activity of carbodine, the carbocyclic analogue of cytidine. *Biochem Pharmacol.* 1990 Jan 15;39(2):319-25. [2]. Shannon WM, et al. Evaluation of carbodine, the carbocyclic analog of cytidine, and related carbocyclic analogs of pyrimidine nucleosides for antiviral activity against human influenza Type A viruses. *Antimicrob Agents Chemother.* 1981 Dec;20(6):769-76.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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