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Produktinformation

- Forschungsprodukte & Biochemikalien
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- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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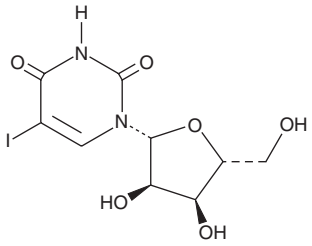
PRODUCT INFORMATION

5-Iodouridine

Item No. 35697

CAS Registry No.:	1024-99-3
Formal Name:	5-iodo-uridine
Synonyms:	IUd, IUrd, NSC 523375
MF:	$C_9H_{11}IN_2O_6$
FW:	370.1
Purity:	≥98%
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

5-Iodouridine is supplied as a solid. A stock solution may be made by dissolving the 5-iodouridine in the solvent of choice, which should be purged with an inert gas. 5-Iodouridine is soluble in methanol. 5-Iodouridine is slightly soluble in acetonitrile.

5-Iodouridine is slightly soluble in aqueous solutions. To enhance aqueous solubility, dilute the organic solvent solution into aqueous buffers or isotonic saline. If performing biological experiments, ensure the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. We do not recommend storing the aqueous solution for more than one day.

Description

5-Iodouridine is a derivative of the pyrimidine nucleoside uridine (Item No. 20300). It inhibits dihydroorotase (K_i = 340 µM for the rat enzyme).[1] 5-Iodouridine sensitizes Don Chinese hamster lung cells to irradiation in a concentration-dependent manner.[2] It has been used in the synthesis of compounds with antiviral and anticancer activities.[3]

References

1. Bresnick, E. and Blatchford, K. Inhibition of dihydroorotase by purines and pyrimidines. *Biochim. Biophys. Acta* **81(1)**, 150-157 (1964).
2. Kuroda, Y., Yokoiyama, A., and Kada, T. Radiosensitization of cultured mammalian cells by 5-iodouridine. *Int. J. Radiat. Biol. Relat. Stud. Phys. Chem. Med.* **27(3)**, 247-257 (1975).
3. Kumar, R., Xu, L.H., Knaus, E.E., *et al.* Synthesis and antiviral and cytotoxic activity of iodohydrin and iodomethoxy derivatives of 5-vinyl-2'-deoxyuridines, 2'-fluoro-2'-deoxyuridine, and uridine. *J. Med. Chem.* **33(2)**, 717-723 (1990).

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