PRODUCT INFORMATION



Idoxuridine

Item No. 20222

CAS Registry No.: 54-42-2

2'-deoxy-5-iodo-uridine Formal Name:

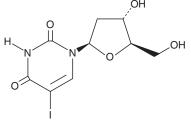
5-lodo-2'-deoxyuridine, NSC 39661 Synonyms:

MF: $C_9H_{11}IN_2O_5$ FW: 354.1 **Purity:** ≥98%

 λ_{max} : 215, 284 nm A crystalline solid UV/Vis.: Supplied as:

-20°C Storage: Stability: ≥4 years

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



Laboratory Procedures

Idoxuridine is supplied as a crystalline solid. A stock solution may be made by dissolving the idoxuridine in the solvent of choice. Idoxuridine is soluble in organic solvents such as DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of idoxuridine in these solvents is approximately 10 and 16 mg/ml, respectively.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of idoxuridine can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of idoxuridine in PBS, pH 7.2, is approximately 5 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

Idoxuridine is a nucleoside analog that is used as an antiviral drug against herpes simplex virus type 1 keratitis. It is incorporated into viral DNA and blocks DNA replication. Idoxuridine shows poor selectivity for viral DNA.

Reference

1. De Clercq, E. Specific targets for antiviral drugs. Biochemistry Journal 205, 1-13 (1982).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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