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Produktinformation

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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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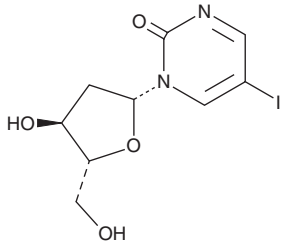
PRODUCT INFORMATION

Ropidoxuridine

Item No. 41220

CAS Registry No.:	93265-81-7
Formal Name:	1-(2-deoxy-β-D-erythro-pentofuranosyl)-5-iodo-2(1H)-pyrimidinone
Synonyms:	IPdR, 5-Iodo-2-pyrimidinone-2'-deoxyribose
MF:	$C_9H_{11}IN_2O_4$
FW:	338.1
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

Ropidoxuridine is supplied as a solid. A stock solution may be made by dissolving the ropidoxuridine in the solvent of choice, which should be purged with an inert gas. Ropidoxuridine is sparingly soluble (1-10 mg/ml) in DMSO.

Description

Ropidoxuridine is a radiosensitizer and a prodrug form of the antiviral compound idoxuridine (Item No. 20222).[1] It also inhibits viral plaque formation in HeLa cells infected by herpes simplex virus 1 (HSV-1) or HSV-2 when used at a concentration of 100 µM.[2] Ropidoxuridine (1,000 mg/kg per day for six days) enhances radiation-induced decreases in tumor growth without reducing body weight in an HT-29 colon cancer mouse xenograft model.[1] It increases animal survival in a mouse model of lethal HSV-2 infection when administered at a dose of 100 mg/kg every five days.[2]

References

1. Kinsella, T.J., Kunugi, K.A., Vielhuber, K.A., *et al.* Preclinical evaluation of 5-iodo-2-pyrimidinone-2'-deoxyribose as a prodrug for 5-iodo-2'-deoxyuridine-mediated radiosensitization in mouse and human tissues. *Clin. Cancer Res.* **4(1)**, 99-109 (1998).
2. Lewandowski, G.A., Grill, S.P., Fisher, M.H., *et al.* Anti-herpes simplex virus activity of 5-substituted 2-pyrimidinone nucleosides. *Antimicrob. Agents Chemother.* **33(3)**, 340-344 (1989).

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