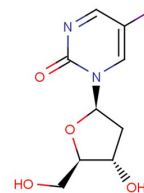


Ropidoxuridine

Chemical Properties

CAS No.:	93265-81-7
Formula:	C ₉ H ₁₁ IN ₂ O ₄
Molecular Weight:	338.1
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	Ropidoxuridine is a novel halogenated thymidine analog.
Targets(IC ₅₀)	Others: None
In vitro	Ropidoxuridine is an orally bioavailable prodrug of IUdR. Ropidoxuridine shows strong synergy effects with Alisertib at clinically relevant concentrations [1].
In vivo	Ropidoxuridine (750 mg/kg/day) and Alisertib (30 mg/kg/day) has strong synergy effects, in an orthotopic tumor model [1].

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.958 mL	14.789 mL	29.577 mL
5 mM	0.592 mL	2.958 mL	5.915 mL
10 mM	0.296 mL	1.479 mL	2.958 mL
50 mM	0.059 mL	0.296 mL	0.592 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Rampurwala MM, et al. Ropidoxuridine (IPdR) potentiates alisertib (MLN8237) activity in triple-negative breast cancer. [abstract]. In: Proceedings of the Thirty-Eighth Annual CTRC-AACR San Antonio Breast Cancer Symposium: 2015 Dec 8-12; San Antonio, TX. Philadelphia (PA): AACR; Cancer Res 2016;76(4 Suppl):Abstract nr P6-13-16.

Inhibitors · Natural Compounds · Compound Libraries

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