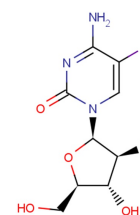


Fiacitabine

Chemical Properties

CAS No.:	69123-90-6
Formula:	C ₉ H ₁₁ FIN ₃ O ₄
Molecular Weight:	371.1
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	Fiacitabine is a selective inhibitor of DNA replication of herpes simplex virus(HSV; IC ₅₀ : 2.5 nM and 12.6 nM for HSV1 and HSV2, respectively).
Targets(IC ₅₀)	Others: None
In vitro	FIAC was active at much lower concentrations than arabinosylcytosine, iododeoxyuridine, and arabinosyladenine. It was slightly more active against herpes simplex virus type 1 than acycloguanosine and slightly more toxic to normal cells. FIAC was about 8,000 times more active against the replication of wild-type herpes simplex virus type 1 than against a mutant strain lacking the expression of a virus-specified thymidine kinase. HSV FIAC suppressed by 90% the replication of various strains of herpes simplex virus types 1 and 2 at concentrations of 0.0025 to 0.0126 μM. Cytotoxicity was minimal, as determined by trypan blue dye exclusion with norman Vero, WI-38, and NC-37 cell proliferation; the 50% inhibitory dose was 4 to 10 μM in a 4-day assay [2].

Solubility Information

Solubility	DMSO: 37 mg/mL (99.70 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.695 mL	13.473 mL	26.947 mL
5 mM	0.539 mL	2.695 mL	5.389 mL
10 mM	0.269 mL	1.347 mL	2.695 mL
50 mM	0.054 mL	0.269 mL	0.539 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

- Allaudeen HS, et al. Selective inhibition of DNA replication in herpes simplex virus infected cells by 1-(2'-deoxy-2'-fluoro-beta-D-arabinofuranosyl)-5-iodocytosine. *J Biol Chem.* 1982 Oct 25;257(20):11879-82.
- Lopez C, et al. 2'-fluoro-5-iodo-aracytosine, a potent and selective anti-herpesvirus agent. *Antimicrob Agents Chemother.* 1980 May;17(5):803-6.

Inhibitors · Natural Compounds · Compound Libraries

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Tel:781-999-4286

E-mail:info@targetmol.com

Address:36 Washington Street,Wellesley Hills,MA 02481