Fiacitabine

Cat. No.:	HY-50735		
CAS No.:	69123-90-6		
Molecular Formula:	$C_9H_{11}FIN_3O_4$		
Molecular Weight:	371.1		
Target:	HSV		
Pathway:	Anti-infection		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year

SOLVENT & SOLUBILITY

Preparing Stock Solutions		Solvent Mass Concentration	1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.6947 mL	13.4735 mL	26.9469 mL
	5 mM	0.5389 mL	2.6947 mL	5.3894 mL	
	10 mM	0.2695 mL	1.3473 mL	2.6947 mL	

BIOLOGICAL ACTIVITY

Description	Fiacitabine(NSC 382097; FIAC of 2.5 nM and 12.6 nM for HSV 90% the replication of various Cytotoxicity was minimal, as of the 50% inhibitory dose was 4 arabinosylcytosine, iododeox than acycloquanosine and slip replication of wild-type herpet thymidine kinase [2].	; FOAC) is a selective inhibitior of DNA replication of herpes simplex virus(HSV) with IC50 values (1 and HSV2, respectively. IC50 value: 2.5/12.6 nM (HSV1/2) [2]Target: HSVFIAC suppressed by a strains of herpes simplex virus types 1 and 2 at concentrations of 0.0025 to 0.0126 microM. determined by trypan blue dye exclusion with norman Vero, WI-38, and NC-37 cell proliferation; 4 to 10 microM in a 4-day assay. FIAC was active at much lower concentrations than syuridine, and arabinosyladenine. It was slightly more active against herpes simplex virus type 1 ghtly more toxic to normal cells. FIAC was about 8,000 times more active against the es simplex virus type 1 than against a mutant strain lacking the expression of virus-specified
IC ₅₀ & Target	HSV-1	HSV-2

REFERENCES





[1]. 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.

[2]. 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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