

# Fiacitabine

**Catalog No: tcsc0323**



## Available Sizes

**Size:** 5mg

**Size:** 10mg



## Specifications

**CAS No:**

69123-90-6

**Formula:**

$C_9H_{11}FIN_3O_4$

**Pathway:**

Anti-infection

**Target:**

HSV

**Purity / Grade:**

>98%

**Solubility:**

DMSO :  $\geq 37$  mg/mL (99.70 mM)

**Alternative Names:**

NSC 382097;FIAC;FOAC

**Observed Molecular Weight:**

371.1

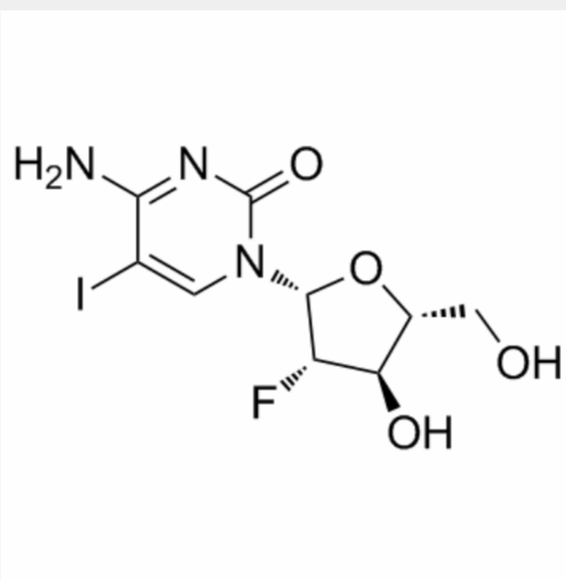
## Product Description

Fiacitabine(NSC 382097; FIAC; FOAC) is a selective inhibitor of DNA replication of herpes simplex virus(HSV) with IC50 values of 2.5 nM and 12.6 nM for HSV1 and HSV2, respectively.

IC50 value: 2.5/12.6 nM (HSV1/2) [2]

Target: 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 microM. Cytotoxicity was minimal, as determined by trypan blue dye exclusion with normal Vero, WI-38, and NC-37 cell proliferation; the 50% inhibitory dose was 4 to 10 microM in a 4-day assay. FIAC was active at much lower concentrations than arabinosylcytosine, iododeoxyuridine, and arabinosyladenine. It was slightly more active against herpes simplex virus type 1 than acycloquanosine 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 virus-specified thymidine kinase [2].



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!