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产品名称: **Fiacitabine**

产品别名: 非西他滨; **NSC 382097; FIAC; FOAC**

生物活性:					
Description	<p>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].</p>				
Solvent&Solubility	<p>In Vitro: DMSO : ≥ 37 mg/mL (99.70 mM) * "≥" means soluble, but saturation unknown.</p>				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing	1 mM	2.6947 mL	13.4735 mL	26.9469 mL
	Stock Solutions	5 mM	0.5389 mL	2.6947 mL	5.3894 mL
		10 mM	0.2695 mL	1.3473 mL	2.6947 mL
<p>*请根据产品在不同溶剂中的溶解度选择合适的溶剂配制储备液;一旦配成溶液,请分装保存,避免反复冻融造成的产品失效。 储备液的保存方式和期限 -80°C, 6 months; -20°C, 1 month。 -80°C 储存时,请在 6 个月内使用, -20°C 储存时,请在 1 个月内使用。</p>					
References	<p>[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.</p>				