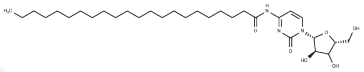
Data Sheet (Cat.No.T15235)

TargetMol

Enocitabine

Chemical Properties



CAS No. : 55726-47-1

Formula: C31H55N3O6

Molecular Weight: 565.78

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	Enocitabine is a nucleoside analog. Enocitabine inhibits the replication of human cytomegalovirus(HCMV) and it also has antileukemic and antiviral activities. Enocitabine is also a potent DNA replication inhibitor and a DNA chain terminator.
Targets(IC50)	Nucleoside Antimetabolite/Analog,HCV Protease,DNA/RNA Synthesis,Virus Protease
In vitro	The combined effects of Pirarubicin and Enocitabine on HeLa S3 human uterine cervix carcinoma and K562 human myelocytic leukemia cells are determined by enhancement of their cytotoxic activities. Enocitabine or etoposide shows synergistic effects on HeLa S3 and K562 cells [2]. In the presence of Enocitabine, triphosphate forms of the nucleoside analogs are detected in the human cytomegalovirus (HCMV)-infected cells, and synthesis of HCMV DNA is strongly suppressed [3].

Solubility Information

Solubility	DMSO: 2 mg/mL (3.53 mM),Sonication and heating to 60°C are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7675 mL	8.8374 mL	17.6747 mL
5 mM	0.3535 mL	1.7675 mL	3.5349 mL
10 mM	0.1767 mL	0.8837 mL	1.7675 mL
50 mM	0.0353 mL	0.1767 mL	0.3535 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Hamada A, et al. Clinical pharmacokinetics of cytarabine formulations.Clin Pharmacokinet. 2002;41(10):705-18.
Nagasawa M, et al.In vitro combined effects of pirarubicin (THP) and various antitumor drugs on human tumor cell lines. Gan To Kagaku Ryoho. 1990 Apr;17(4 Pt 1):633-8.
Nakamura K, et al. Antiviral effect of antileukemic drugs N4-behenoyl-1-beta-D-arabinofuranosylcytosine (BH-AC) and 2,2'-anhydro-1-beta-D-arabinofuranosylcytosine (cyclo-C) against human cytomegalovirus. J Med Virol. 1990 Jun;31(2):141-7.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481