Data Sheet (Cat.No.T1454L)

TargetMol

Acyclovir sodium

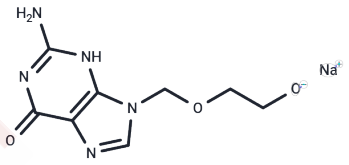
Chemical Properties

CAS No. : 69657-51-8

Formula: C8H10N5NaO3

Molecular Weight: 247.19

Storage: Keep away from direct sunlight,Store under nitrogen
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	Acyclovir sodium is a guanosine nucleoside analogue and viral DNA polymerase inhibitor with antiviral activity, used to treat skin and mucous membrane HSV infections, exhibiting significant activity against HSV-1, HSV-2, and VZV.
Targets(IC50)	Apoptosis,Antibacterial,Antibiotic,HSV,DNA/RNA Synthesis
In vitro	Jurkat, U937, and K562 leukemia cells were treated with Acyclovir sodium (3-100 μM, 24-72 hours) to measure cell viability. **Results**: Acyclovir sodium reduced cell viability in a dose- and time-dependent manner. [1]

Solubility Information

Solubility	DMSO: Soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.0455 mL	20.2274 mL	40.4547 mL
5 mM	0.8091 mL	4.0455 mL	8.0909 mL
10 mM	0.4045 mL	2.0227 mL	4.0455 mL
50 mM	0.0809 mL	0.4045 mL	0.8091 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

Caviness AC, et al. Cost-effectiveness analysis of herpes simplex virus testing and treatment strategies in febrile neonates. Arch Pediatr Adolesc Med. 2008 Jul;162(7):665-74.

Jain SK, Gupta Y, Jain A, Rai K. Enhanced transdermal delivery of acyclovir sodium via elastic liposomes. Drug Deliv. 2008 Mar-Apr;15(3):141-7.

Jain SK, Jain RK, Chourasia MK, Jain AK, Chalasani KB, Soni V, Jain A. Design and development of multivesicular liposomal depot delivery system for controlled systemic delivery of acyclovir sodium. AAPS PharmSciTech. 2005 Sep 20;6(1):E35-41.

Ling J, Gupta VD. Stability of acyclovir sodium after reconstitution in 0.9% sodium chloride inection and storage in polypropylene syringes for pediatric use. Int J Pharm Compd. 2001 Jan-Feb;5(1):75-7.