Product Datasheet

Technical Data

Formula	$C_8H_{11}N_5O_3$					
Molecular Weight	225.2	**CAS No.**	59277-89-3			
Solubility (25°C)*	In vitro	DMSO	45 mg/mL (199.82 mM)			
		Water	Insoluble			
		Ethanol	Insoluble			
	In vivo (Add solvents to the product individually and in order)	Oral Administration	Homogeneous suspension	CMC-NA	≥5mg/ml	Taking the 1 mL working solution as an example, add 5 mg of this product to 1 ml of CMC-Na solution, mix evenly to obtain a homogeneous suspension with a final concentration of 5 mg/ml.

* <1 mg/ml means slightly soluble or insoluble.
* Please note that Capsid Bio tests the solubility of all compounds in-house, and the actual solubility may differ slightly from published values. This is normal and is due to slight batch-to-batch variations.
* Room temperature shipping (Stability testing shows this product can be shipped at 2-8°C for storage purposes.)

Preparing Stock Solutions

Concentration \ Volume \ Mass	1 mg	5 mg	10 mg
1 mM	4.4405 mL	22.2025 mL	44.4050 mL
5 mM	0.8881 mL	4.4405 mL	8.8810 mL
10 mM	0.4440 mL	2.2202 mL	4.4405 mL
50 mM	0.0888 mL	0.4440 mL	0.8881 mL

Biological Activity

Description	Acyclovir (Aciclovir) is a synthetic nucleoside analogue active against herpesviruses, and it induces cell cycle perturbation and **apoptosis** in Jurkat leukemia cells.
Targets	HSV [1]
In vitro	In a plaque-reduction assay in Vero cells, the Acyclovir (Aciclovir) sensitivity of herpes simplex virus isolates is determined. IC50 Values are consistently 2-3 fold lower in B2 compared with the H strain of Vero cells. HSV Type 2 strains are 2-10-fold less sensitive than Type 1 strains[2].
In vivo	low-dose oral acyclovir (aciclovir) may be effective in the prevention of HSV infection during OKT3 treatment of seropositive patients. Continuation of this compound for two to four weeks following the conclusion of OKT3 therapy may prevent occurrence of delayed infections[3].

References

https://pubmed.ncbi.nlm.nih.gov/3913459/ https://pubmed.ncbi.nlm.nih.gov/3025149/ https://pubmed.ncbi.nlm.nih.gov/2652575/

RETURN POLICY

Capsid Bio's Unconditional Return Policy ensures a smooth online shopping experience for our customers. If you are in any way unsatisfied with your purchase, you may return any item(s) within 7 days of receiving it. In the event of product quality issues, either protocol related or product related problems, you may return any item(s) within 365 days from the original purchase date. Please follow the instructions below when returning products.

SHIPPING & STORAGE

Capsid Bio products are transported at room temperature. If you receive the product at room temperature, please rest assured, the Capsid Bio Quality Inspection Department has conducted experiments to verify that the normal temperature placement of one month will not affect the biological activity of powder products. After collecting, please store the product according to the requirements described in the datasheet. Most Capsid Bio products are stable under the recommended conditions.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

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