Adefovir Dipivoxil (GS 0840)

Catalog No.C08004 Batch:C0800403

Product Datasheet

Technical Data

Formula	$C_{20}H_{32}N_5O_8P$					
Molecular Weight	501.47	**CAS No.**	142340-99-6			
Solubility (25°C)*	In vitro	DMSO	100 mg/mL (199.41 mM)			
		Ethanol	100 mg/mL (199.41 mM)			
		Water	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

Biological Activity

Description	Adefovir Dipivoxil (GS 0840) is a **reverse transcriptase** inhibitor used in the treatment of chronic hepatitis B virus (HBV).
Targets	HBV RT [1]
In vivo	Adefovir Dipivoxil (GS 0840) reduces Liver HBV DNA to <0.1 pg of viral DNA per mg of total DNA (pg/mg) in transgenic mice expressing hepatitis B virus. This compound also reduces serum HBV DNA to 3.5 log10 genomic equivalents (ge)/mL in the same model, compared to 5.3 log10 ge/mL for the placebo control group. Its antiviral activity reaches near maximum viral reduction by day 10 in the liver and achieves an endpoint of liver virus inhibition at 1.0 mg/kg/day. [1]

References

https://pubmed.ncbi.nlm.nih.gov/12076749/ https://pubmed.ncbi.nlm.nih.gov/11796353/ https://pubmed.ncbi.nlm.nih.gov/15388423/

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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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