Adefovir

Catalog No.C10682 Batch:C1068203

Product Datasheet

Technical Data

Formula	$C_8H_{12}N_5O_4P$		
Molecular Weight	273.19	**CAS No.**	106941-25-7
Solubility (25°C)*	In vitro	5%TFA	6.04 mg/mL (22.1 mM)
		Water	0.1 mg/mL (0.36 mM)
		DMSO	Insoluble

* <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	3.6605 mL	18.3023 mL	36.6046 mL
5 mM	0.7321 mL	3.6605 mL	7.3209 mL
10 mM	0.3660 mL	1.8302 mL	3.6605 mL
50 mM	-	-	-

Biological Activity

Description	Adefovir is an orally administered nucleotide analog **reverse transcriptase** inhibitor used for treatment of hepatitis B and herpes simplex virus infection.
Targets	Reverse transcriptase [1]
In vitro	In vitro, adefovir is a potent inhibitor of viral replication in human hepatoma cell lines stably transfected with HBV and in primary duck hepatocytes infected with duck HBV (DHBV). This compound does not prevent initiation of infection in primary duck hepatocyte cultures. It is also reported to exhibit immunomodulatory effects, including stimulation of natural killer cell activity and interferon alpha production[1].
In vivo	Adefovir has a poor oral bioavailability and it is usually used via intraperitoneal injection[1].

References

http://aac.asm.org/content/46/2/425.full

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.

EU Headquarters
Gajeva ulica 28, HR-10000 Zagreb, Croatia

US Headquarters
12222 Merit Dr STE 130 Dallas, Texas, 75251

UK Headquarters
121 ABILITY HOUSE, BROOKER ROAD, EN9 1JH, ESSEX

Orders: Sales@capsidbio.com
Enquiries: info@capsidbio.com
www.capsidbio.com