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Produktinformation



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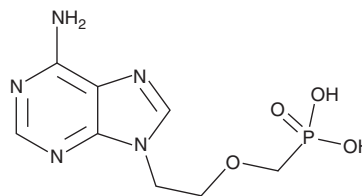
PRODUCT INFORMATION



Adefovir

Item No. 18650

CAS Registry No.: 106941-25-7
Formal Name: P-[[2-(6-amino-9H-purin-9-yl)ethoxy)methyl]-phosphonic acid
Synonyms: GS-0393, PMEA
MF: C₈H₁₂N₅O₄P
FW: 273.2
Purity: ≥95%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid



Laboratory Procedures

For long term storage, we suggest that adefovir be stored as supplied at -20°C. It should be stable for at least two years. Adefovir is supplied as a crystalline solid. Adefovir is soluble in hot water and 0.1M NaOH.

Description

Adefovir is an active metabolite of the antiviral nucleoside analog adefovir dipivoxil (Item No. 28373).¹ Adefovir is formed from adefovir dipivoxil by gastrointestinal carboxylesterase 2 (CES2).² It inhibits cytopathogenicity induced by herpes simplex virus 1 (HSV-1) and HSV-2 (EC₅₀ = 7 µg/ml for both in E₆SM cells), HIV-1 and HIV-2 (EC₅₀s = 1.8 and 2.5 µg/ml, respectively, in CEM cells), and varicella zoster virus (VZV; EC₅₀ = 10 µg/ml in human embryonic lung fibroblasts).³ Adefovir (50 mg/kg, p.o.) reduces increases in lymph node viral DNA and serum IgG levels in a mouse model of AIDS induced by infection with the retroviral complex LP-BM5.⁴ It also inhibits tumor growth induced by Moloney sarcoma virus (MSV) infection in mice at the same dose.⁵

References

1. Arimilli, M.N., Dougherty, J.P., Cundy, K.C., *et al.* Orally bioavailable acyclic nucleoside phosphonate prodrugs: Adefovir dipivoxil and bis(POC)PMPA. *Advances in Antiviral Drug Design* **3**, 69-91 (1999).
2. Laizure, S.C., Herring, V., Hu, Z., *et al.* The role of human carboxylesterases in drug metabolism: Have we overlooked their importance? *Pharmacotherapy* **33**(2), 210-222 (2013).
3. Holý, A., Votruba, I., Masojídková, M., *et al.* 6-[2-(Phosphonomethoxy)alkoxy]pyrimidines with antiviral activity. *J. Med. Chem.* **45**(9), 1918-1929 (2002).
4. Rossi, L., Dominici, S., Serafini, S., *et al.* Pharmacokinetic and antiretroviral activity in mice of oral [P1,P2-bis[2-(adenin-9-yl)ethoxymethyl]phosphonate], a prodrug of 9-(2-phosphonylmethoxyethyl)adenine. *J. Antimicrob. Chemother.* **50**(3), 365-374 (2002).
5. Naesens, L., Balzarini, J., Bischofberger, N., *et al.* Antiretroviral activity and pharmacokinetics in mice of oral bis(pivaloyloxymethyl)-9-(2-phosphonylmethoxyethyl)adenine, the bis(pivaloyloxymethyl) ester prodrug of 9-(2-phosphonylmethoxyethyl)adenine. *Antimicrob. Agents Chemother.* **40**(1), 22-28 (1996).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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