



LKT Laboratories, Inc.

Adefovir Dipivoxil

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Product Information

Product ID A1218

CAS No. 142340-99-6

Chemical Name

Synonym

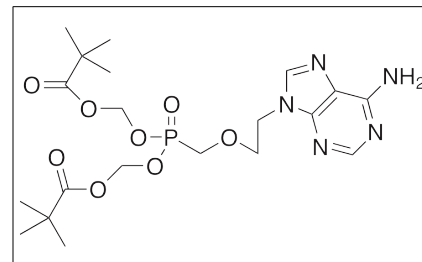
Formula $C_{20}H_{32}N_5O_8P$

Formula Wt. 501.47

Melting Point

Purity $\geq 98\%$

Solubility



Bulk quantities available upon request

Product ID	Size
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A1218	10 mg
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A1218	50 mg
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A1218	250 mg
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Store Temp Ambient

Ship Temp Ambient

Description Adefovir dipivoxil is the diester form of adefovir, an antiviral prodrug that displays immunomodulatory activity. Adefovir is an acyclonucleotide analog that inhibits viral DNA polymerase, acting as a DNA chain terminator. Adefovir is primarily used to treat hepatitis B infection, but also displays activity against retroviruses. Adefovir decreases levels of Treg cells and increases levels of IL-4, IL-2, TNF- α , and IFN- γ . Additionally, this compound may show anti-arthritis activity as well, inhibiting production of NO and expression of RANTES and acting both as a prophylactic or a rescue treatment in animal models of adjuvant-induced arthritis.

References Jiang Y, Li W, Yu L, et al. Enhancing the antihepatitis B virus immune response by adefovir dipivoxil and entecavir therapies. *Cell Mol Immunol.* 2011 Jan;8(1):75-82. PMID: 20921939

Rodriguez-Frias F, Jardi R, Schaper M, et al. Adefovir for chronic hepatitis B treatment: identification of virological markers linked to therapy response. *Antivir Ther.* 2008;13(8):991-9. PMID: 19195324.

Zidek Z, Franková D, Holý A. Chemokines, nitric oxide and antiarthritic effects of 9-(2-phosphonomethoxyethyl)adenine (Adefovir). *Eur J Pharmacol.* 1999 Jul 2;376(1-2):91-100. PMID: 10440094.

Neyts J, De Clercq E. Mechanism of action of acyclic nucleoside phosphonates against herpes virus replication. *Biochem Pharmacol.* 1994 Jan 13;47(1):39-41. PMID: 8311844.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.