



LKT Laboratories, Inc.

Brivudine

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Product Information

Product ID B6935

CAS No. 69304-47-8

Chemical Name 5-[(E)-2-bromoethenyl]-1-[(2R,4S,5R)-4-hydroxy-5-(hydroxymethyl)oxolan-2-yl]-1,2,3,4-tetrahydropyrimidine-2,4-dione

Synonym

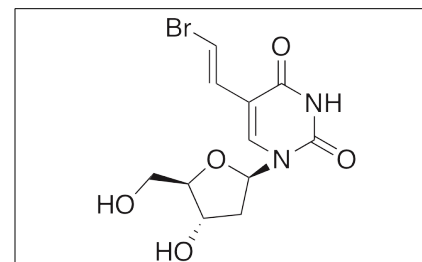
Formula C₁₁H₁₃BrN₂O₅

Formula Wt. 333.13

Melting Point 165°C

Purity ≥98%

Solubility



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
B6935	10 mg	\$204.80
B6935	25 mg	\$404.30
B6935	100 mg	\$1029.00

Store Temp Ambient

Ship Temp Ambient

Description Brivudine is a L-nucleoside analog of thymidine that exhibits antiviral, anticancer chemotherapeutic, and insecticidal activities. Brivudine inhibits herpes simplex virus (HSV-1) thymidine kinase, preventing DNA chain elongation and inhibiting viral growth. Brivudine also binds heat shock protein 27 (HSP27/HSPB1), improving the efficacy of co-administered chemotherapeutics in vivo and in clinical settings. This compound also exhibits properties of an insecticide, slowing larval growth and development of *Spodoptera* worms.

References Heinrich JC, Tuukkanen A, Schroeder M, et al. RP101 (brivudine) binds to heat shock protein HSP27 (HSPB1) and enhances survival in animals and pancreatic cancer patients. *J Cancer Res Clin Oncol.* 2011 Sep;137(9):1349-61. PMID: 21833720.

Breuer M, De Loof A, Balzarini J, et al. Insecticidal activity of the pyrimidine nucleoside analogue (E)-5-(2-bromovinyl)-2'-deoxyuridine (BVDU). *Pest Manag Sci.* 2005 Aug;61(8):737-41. PMID: 15838935.

Spadari S, Ciarrocchi G, Focher F, et al. 5-Iodo-2'-deoxy-L-uridine and (E)-5-(2-bromovinyl)-2'-deoxy-L-uridine: selective phosphorylation by herpes simplex virus type 1 thymidine kinase, antiherpetic activity, and cytotoxicity studies. *Mol Pharmacol.* 1995 Jun;47(6):1231-8. PMID: 7603465.

Balzarini J, Bohman C, De Clercq E. Differential mechanism of cytostatic effect of (E)-5-(2-bromovinyl)-2'-deoxyuridine, 9-(1,3-dihydroxy-2-propoxymethyl)guanine, and other antiherpetic drugs on tumor cells transfected by the thymidine kinase gene of herpes simplex virus type 1 or type 2. *J Biol Chem.* 1993 Mar 25;268(9):6332-7. PMID: 8384209.

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