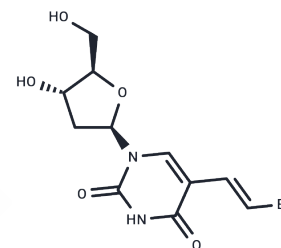


## Brivudine

## Chemical Properties

CAS No. :	69304-47-8
Formula:	C <sub>11</sub> H <sub>13</sub> BrN <sub>2</sub> O <sub>5</sub>
Molecular Weight:	333.14
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Brivudine (BVDU), an antiviral medicine, is used in the therapy of herpes zoster.
Targets(IC50)	HSV,Virus Protease
In vitro	Brivudine is an analog of thymidine, and is incorporated into the viral DNA. It blocks the action of DNA polymerases thereby inhibiting viral replication. It has a stronger antiviral effect against the varicella-zoster virus than reference compounds such as aciclovir or penciclovir[1]. It has high, selective activity against varicella zoster virus (VZV), inhibiting VZV replication, possibly through competitive inhibition of viral DNA polymerase, or by acting as an alternative substrate to deoxythymidine triphosphate, causing viral DNA strand breakage[2].
In vivo	At a dose of 125 mg once daily, brivudine has been shown to be superior to aciclovir with respect to reducing the period of new blister production and shortening the duration of post-herpetic neuralgia[1].

## Solubility Information

Solubility	DMSO: 50 mg/mL (150.09 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 10 mg/mL (30.02 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

---

	1mg	5mg	10mg
1 mM	3.0017 mL	15.0087 mL	30.0174 mL
5 mM	0.6003 mL	3.0017 mL	6.0035 mL
10 mM	0.3002 mL	1.5009 mL	3.0017 mL
50 mM	0.060 mL	0.3002 mL	0.6003 mL

---

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Rabasseda X, et al. Brivudine: a herpes virostatic with rapid antiviral activity and once-daily dosing. *Drugs Today (Barc)*. 2003 May;39(5):359-71.

Keam SJ, et al. Brivudin (bromovinyl deoxyuridine). *Drugs*. 2004;64(18):2091-7; discussion 2098-9.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481