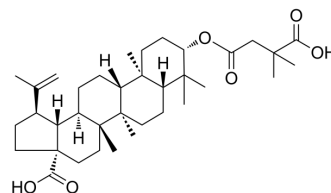


Bevirimat

Cat. No.:	HY-N0842		
CAS No.:	174022-42-5		
Molecular Formula:	C ₃₆ H ₅₆ O ₆		
Molecular Weight:	584.83		
Target:	HIV		
Pathway:	Anti-infection		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 50 mg/mL (85.49 mM)
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Mass		1 mg	5 mg	10 mg
	Concentration				
	1 mM		1.7099 mL	8.5495 mL	17.0990 mL
	5 mM		0.3420 mL	1.7099 mL	3.4198 mL
	10 mM		0.1710 mL	0.8549 mL	1.7099 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
 Solubility: ≥ 2.5 mg/mL (4.27 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
 Solubility: 2.5 mg/mL (4.27 mM); Suspended solution; Need ultrasonic and warming
- Add each solvent one by one: 10% DMSO >> 90% corn oil
 Solubility: ≥ 2.5 mg/mL (4.27 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Bevirimat (PA-457; MPC-4326; YK FH312) is an anti-HIV agent derived from a betulinic acid-like compound; is believed to inhibit HIV by a novel mechanism, so-called maturation inhibition.

CUSTOMER VALIDATION

-
- Int J Antimicrob Agents. 2019 Dec;54(6):814-819.

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REFERENCES

- [1]. Smith PF, et al. Phase I and II study of the safety, virologic effect, and pharmacokinetics/pharmacodynamics of single-dose 3-o-(3',3'-dimethylsuccinyl)betulinic acid (bevirimat) against human immunodeficiency virus infection. Antimicrob Agents Chemother. 2007 Oct;51(10):3574-81.
- [2]. Salzwedel K, et al. Maturation inhibitors: a new therapeutic class targets the virus structure. AIDS Rev. 2007 Jul-Sep;9(3):162-72.
- [3]. Martin DE, et al. Bevirimat: a novel maturation inhibitor for the treatment of HIV-1 infection. Antivir Chem Chemother. 2008;19(3):107-13.
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Caution: Product has not been fully validated for medical applications. For research use only.

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