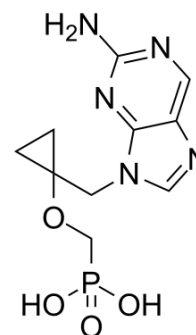


## Besifovir

Cat. No.:	HY-19447
CAS No.:	441785-25-7
Molecular Formula:	C <sub>10</sub> H <sub>14</sub> N <sub>5</sub> O <sub>4</sub> P
Molecular Weight:	299.22
Target:	HBV
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the COA.



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 250 mg/mL (835.51 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	3.3420 mL	16.7101 mL	33.4202 mL
	5 mM	0.6684 mL	3.3420 mL	6.6840 mL
	10 mM	0.3342 mL	1.6710 mL	3.3420 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: ≥ 2.08 mg/mL (6.95 mM); Clear solution
- Add each solvent one by one: **10% DMSO >> 90% (20% SBE-β-CD in saline)**  
Solubility: ≥ 2.08 mg/mL (6.95 mM); Clear solution
- Add each solvent one by one: **10% DMSO >> 90% corn oil**  
Solubility: ≥ 2.08 mg/mL (6.95 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Besifovir (LB80331), a parent drug converted by LB80380, further metabolizes to its active form, LB80317. LB80380 is potent antiviral agent against hepatitis B virus (HBV) <sup>[1][2]</sup>.

### REFERENCES

- [1]. Jung JA, et al. Pharmacokinetic comparison of the maleate and free base formulations of LB80380, a novel nucleotide analog, in healthy male volunteers. Int J Clin Pharmacol Ther. 2012 Sep;50(9):657-64.

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[2]. Yuen MF, et al. A randomized placebo-controlled, dose-finding study of oral LB80380 in HBeAg-positive patients with chronic hepatitis B. *Antivir Ther.* 2006;11(8):977-83.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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