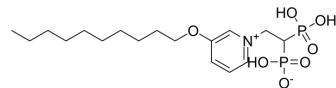


## BPH-715

Cat. No.:	HY-118224		
CAS No.:	1059677-23-4		
Molecular Formula:	C <sub>17</sub> H <sub>31</sub> NO <sub>7</sub> P <sub>2</sub>		
Molecular Weight:	423.38		
Target:	Parasite		
Pathway:	Anti-infection		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

0.5 M NaOH : 80 mg/mL (188.96 mM; ultrasonic and adjust pH to 11 with NaOH)  
 DMSO : 5 mg/mL (11.81 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent		1 mg	5 mg	10 mg
	Concentration	Mass			
	1 mM		2.3619 mL	11.8097 mL	23.6194 mL
	5 mM		0.4724 mL	2.3619 mL	4.7239 mL
	10 mM		0.2362 mL	1.1810 mL	2.3619 mL

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

### BIOLOGICAL ACTIVITY

#### Description

BPH-715 is a bisphosphonate, inhibits Plasmodium liver-stage growth, with an IC<sub>50</sub> of 10 μM for Plasmodium exoerythrocytic forms in HepG2 cells<sup>[1]</sup>.

### REFERENCES

[1]. Singh AP, et al. Lipophilic bisphosphonates are potent inhibitors of Plasmodium liver-stage growth. Antimicrob Agents Chemother. 2010 Jul;54(7):2987-93.

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

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