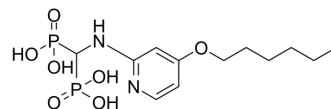


## TH-Z93

Cat. No.:	HY-150167		
CAS No.:	2260887-09-8		
Molecular Formula:	C <sub>12</sub> H <sub>22</sub> N <sub>2</sub> O <sub>7</sub> P <sub>2</sub>		
Molecular Weight:	368.26		
Target:	Bacterial		
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

H<sub>2</sub>O : 1.89 mg/mL (5.13 mM; ultrasonic and warming and adjust pH to 10 with NaOH and heat to 60°C)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	2.7155 mL	13.5774 mL	27.1547 mL
5 mM	0.5431 mL	2.7155 mL	5.4309 mL
10 mM	---	---	---

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

### BIOLOGICAL ACTIVITY

#### Description

TH-Z93, a lipophilic bisphosphonate, is a FPPS inhibitor (IC<sub>50</sub>: 90 nM)<sup>[1]</sup>.

#### IC<sub>50</sub> & Target

FPPS<sup>[1]</sup>

#### In Vivo

TH-Z93 (20 μg, i.p.) exhibits strong prophylactic effects in a pathogenic influenza model<sup>[1]</sup>.  
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	B16-OVA cells (s.c.) xenograft mice model <sup>[1]</sup> .
Dosage:	20 μg
Administration:	Intraperitoneal injection (i.p.)
Result:	Inhibited tumor growth and prolonged survival.

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## REFERENCES

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[1]. Xia Y, et al. The Mevalonate Pathway Is a Druggable Target for Vaccine Adjuvant Discovery. Cell. 2018 Nov 1;175(4):1059-1073.e21.

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

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