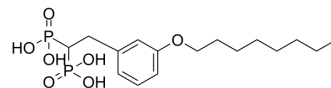


TH-Z145

Cat. No.:	HY-150168		
CAS No.:	2260887-57-6		
Molecular Formula:	C ₁₆ H ₂₈ O ₇ P ₂		
Molecular Weight:	394.34		
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

DMSO : 100 mg/mL (253.59 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	2.5359 mL	12.6794 mL	25.3588 mL
5 mM	0.5072 mL	2.5359 mL	5.0718 mL
10 mM	0.2536 mL	1.2679 mL	2.5359 mL

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

BIOLOGICAL ACTIVITY

Description

TH-Z145, a lipophilic bisphosphonate, is a FPPS inhibitor (IC₅₀: 210 nM)^[1].

IC₅₀ & Target

FPPS^[1]

In Vivo

TH-Z145 (20 µg, i.p.) exhibits strong prophylactic effects in a pathogenic influenza model^[1].
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 ^[1] .
Dosage:	20 µg
Administration:	Intraperitoneal injection (i.p.)
Result:	Inhibited tumor growth and prolonged survival.

REFERENCES

[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.

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

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