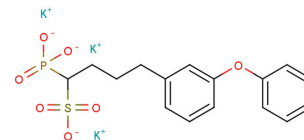


BPH-652

Chemical Properties

CAS No.:	157124-84-0
Formula:	C ₁₆ H ₁₆ K ₃ O ₇ PS
Molecular Weight:	500.63
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

**Biological Description**

Description	BPH-652 is an <i>S. aureus</i> dehydrosqualene synthase (CrtM) inhibitor (K _i : 1.5 nM; IC ₅₀ : 100-300 nM for <i>S. aureus</i> pigment formation).
Targets(IC ₅₀)	CrtM: K _i : 1.5 nM
In vivo	BPH-652 treatment (0.5 mg twice per day (days -1, 0, 1, and 2), i.p.) significantly lowers <i>S. aureus</i> bacterial counts in the kidneys of the mice than those of the control group, with 8 of 13 below the detection threshold, versus only 2 of 14 in the control group; on average, this result corresponds to a 98% decrease in surviving bacteria in the treatment group.

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.997 mL	9.987 mL	19.975 mL
5 mM	0.399 mL	1.997 mL	3.995 mL
10 mM	0.2 mL	0.999 mL	1.997 mL
50 mM	0.04 mL	0.2 mL	0.399 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Liu CI, et al. A cholesterol biosynthesis inhibitor blocks *Staphylococcus aureus* virulence. *Science*. 2008 Mar 7;319(5868):1391-4.

Inhibitors · Natural Compounds · Compound Libraries

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Tel:781-999-4286

E-mail:info@targetmol.com

Address:36 Washington Street,Wellesley Hills,MA 02481