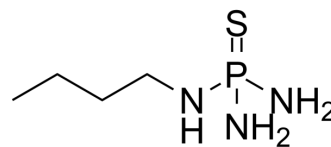


N-Butylthiophosphoric triamide

Cat. No.:	HY-107199
CAS No.:	94317-64-3
Molecular Formula:	C ₄ H ₁₄ N ₃ PS
Molecular Weight:	167.21
Target:	Bacterial
Pathway:	Anti-infection
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (598.05 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	5.9805 mL	29.9025 mL	59.8050 mL
				5 mM	1.1961 mL	5.9805 mL	11.9610 mL
				10 mM	0.5981 mL	2.9903 mL	5.9805 mL
Please refer to the solubility information to select the appropriate solvent.							
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (14.95 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (14.95 mM); Clear solution						
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (14.95 mM); Clear solution						

BIOLOGICAL ACTIVITY

Description	N-Butylthiophosphoric triamide (NBPT) is a potent urease inhibitor. Butylthiophosphoric triamide inhibits nitrification and reduces the conversion of urea to NH ₃ gas ^[1] .
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REFERENCES

[1]. Cantarella H, et al. Agronomic efficiency of NBPT as a urease inhibitor: A review. J Adv Res. 2018 May 24;13:19-27.

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

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