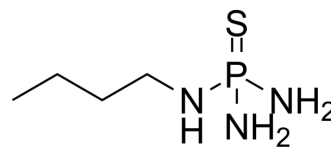


N-Butylthiophosphoric triamide

Cat. No.: HY-107199
CAS No.: 94317-64-3
Molecular Formula: C₄H₁₄N₃PS
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	Mass	1 mg	5 mg	10 mg
		Solvent			
		Concentration			
		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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