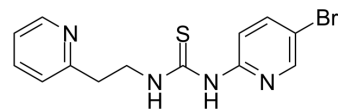


## Trovirdine

<b>Cat. No.:</b>	HY-15349		
<b>CAS No.:</b>	149488-17-5		
<b>Molecular Formula:</b>	C <sub>13</sub> H <sub>13</sub> BrN <sub>4</sub> S		
<b>Molecular Weight:</b>	337.24		
<b>Target:</b>	HIV		
<b>Pathway:</b>	Anti-infection		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 100 mg/mL (296.52 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.9652 mL	14.8262 mL	29.6525 mL
	5 mM	0.5930 mL	2.9652 mL	5.9305 mL
	10 mM	0.2965 mL	1.4826 mL	2.9652 mL

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

#### In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 2.5 mg/mL (7.41 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (7.41 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Trovirdine inhibits HIV-1 RT with an IC<sub>50</sub> of 7 nM when employing heteropolymeric primer/template (oligo-DNA/ribosomal RNA) and dGTP as substrate. IC<sub>50</sub> value: 7 nM Target: HIV-1 Trovirdine is currently in phase I clinical trials for potential use in the treatment of AIDS.

### CUSTOMER VALIDATION

- Int J Antimicrob Agents. 2019 Dec;54(6):814-819.

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See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

## REFERENCES

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[1]. Zhang, H. et al. Inhibition of human immunodeficiency virus type 1 wild-type and mutant reverse transcriptases by the phenyl ethylthiazolyl thiourea derivatives trovirdine and MSC-127.

[2]. Cantrell, A.S. et al. Phenethylthiazolylthiourea (PETT) compounds as a newclass of HIV-1 reverse transcriptase inhibitors. 2. Synthesis and further structure-activity relationship studies of PETT analogs.

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

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