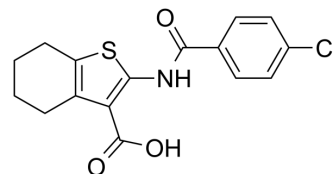


TBT1

Cat. No.:	HY-124789	
CAS No.:	52535-76-9	
Molecular Formula:	C ₁₆ H ₁₄ ClNO ₃ S	
Molecular Weight:	335.81	
Target:	Bacterial; Antibiotic	
Pathway:	Anti-infection	
Storage:	Powder	-20°C 3 years
	In solvent	-80°C 6 months
		-20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 125 mg/mL (372.23 mM; ultrasonic and warming and heat to 60°C)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.9779 mL	14.8894 mL	29.7787 mL
	5 mM	0.5956 mL	2.9779 mL	5.9557 mL
	10 mM	0.2978 mL	1.4889 mL	2.9779 mL

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

BIOLOGICAL ACTIVITY

Description

TBT1 is a first-generation inhibitor of the MsbA transporter. TBT1 is an LPS transport inhibitor and MsbA ATPase stimulator in strains from the *Acinetobacter* genus. TBT1 stimulated ATPase activity with an EC₅₀ of 13 μM^[1].

REFERENCES

[1]. François A Thélot, et al. Distinct allosteric mechanisms of first-generation MsbA inhibitors. *Science*. 2021 Oct 29;374(6567):580-585.

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

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