# Macozinone

Cat. No.:	HY-12903			
CAS No.:	1377239-83-2			
Molecular Formula:	$C_{20}H_{23}F_{3}N_{4}O_{3}S$			
Molecular Weight:	456.48			
Target:	Bacterial; Antibiotic			
Pathway:	Anti-infection			
Storage:	Powder	-20°C	3 years	
		4°C	2 years	
	In solvent	-80°C	2 years	
		-20°C	1 year	

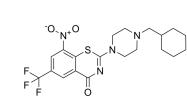
### SOLVENT & SOLUBILITY

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg	
	1 mM	2.1907 mL	10.9534 mL	21.9068 mL	
		5 mM	0.4381 mL	2.1907 mL	4.3814 mL
	10 mM	0.2191 mL	1.0953 mL	2.1907 mL	

BIOLOGICAL ACTIVITY			
Description	Macozinone (PBTZ169) is a bactericidal benzothiazinone and a potent DprE1 (decaprenylphosphoryl-β-d-ribose 2'-oxidase) inhibitor. Macozinone inhibits the essential flavoprotein DprE1 by forming a covalent bond with the active-site Cys387 residue. Macozinone has antituberculosis effect <sup>[1][2]</sup> .		
IC <sub>50</sub> & Target	DprE1 <sup>[1]</sup>		
In Vitro	Macozinone (PBTZ169) is highly potent against M. tuberculosis in vitro, ex vivo, and in vivo <sup>[2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		

## CUSTOMER VALIDATION

• Antimicrob Agents Chemother. 2021 Jan 25;AAC.01445-20.





- Dis Model Mech. 2021 Oct 13;dmm.049145.
- J Pharm Biomed Anal. 2 June 2022, 114865.

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### REFERENCES

[1]. [3] Makarov V et al. Towards a new combination therapy for tuberculosis with next generation benzothiazinones. EMBO Mol Med. 2014 Mar;6(3):372-83.

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

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