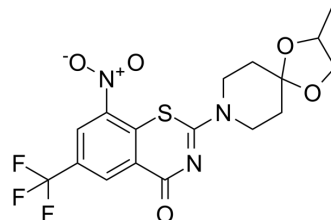


## BTZ043 Racemate

<b>Cat. No.:</b>	HY-13579A		
<b>CAS No.:</b>	957217-65-1		
<b>Molecular Formula:</b>	C <sub>17</sub> H <sub>16</sub> F <sub>3</sub> N <sub>3</sub> O <sub>5</sub> S		
<b>Molecular Weight:</b>	431.39		
<b>Target:</b>	Bacterial		
<b>Pathway:</b>	Anti-infection		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 25 mg/mL (57.95 mM); ultrasonic and warming and heat to 60°C				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	<b>Preparing Stock Solutions</b>	1 mM	2.3181 mL	11.5904 mL	23.1809 mL
		5 mM	0.4636 mL	2.3181 mL	4.6362 mL
10 mM		0.2318 mL	1.1590 mL	2.3181 mL	
Please refer to the solubility information to select the appropriate solvent.					
<b>In Vivo</b>	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 2.5 mg/mL (5.80 mM); Suspended solution; Need ultrasonic  2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 1.38 mg/mL (3.20 mM); Clear solution				

### BIOLOGICAL ACTIVITY

<b>Description</b>	BTZ043 Racemate (BTZ10526038) is the racemate of BTZ043. BTZ043 is an inhibitor of decaprenyl-phosphoribose-epimerase (DprE1), and the antimicrobial activity of BTZ043 is more potent than BTZ043 Racemate <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	DprE1 <sup>[1]</sup> .

### REFERENCES

[1]. Gao C, et al. Synthesis and structure-activity relationships evaluation of benzothiazinone derivatives as potential anti-tubercular agents. *Bioorg Med Chem Lett*. 2013

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

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