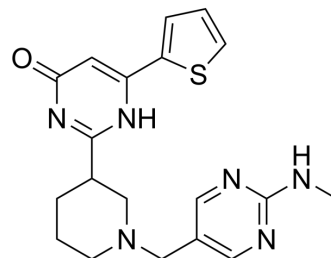


## Ribocil

Cat. No.:	HY-19487		
CAS No.:	1381289-58-2		
Molecular Formula:	C <sub>19</sub> H <sub>22</sub> N <sub>6</sub> OS		
Molecular Weight:	382.48		
Target:	Bacterial		
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

#### In Vitro

DMSO : 12.5 mg/mL (32.68 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.6145 mL	13.0726 mL	26.1452 mL
	5 mM	0.5229 mL	2.6145 mL	5.2290 mL
	10 mM	0.2615 mL	1.3073 mL	2.6145 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: ≥ 1.25 mg/mL (3.27 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 1.25 mg/mL (3.27 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 1.25 mg/mL (3.27 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Ribocil is a highly selective chemical regulator that regulates the bacterial riboflavin nuclear switch. Ribocil strongly inhibits GFP expression with an EC<sub>50</sub> value of 0.3 μM.

### REFERENCES

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

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