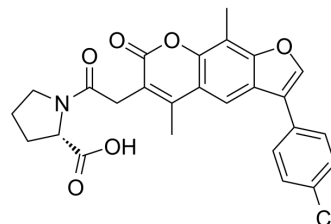


## Targocil-II

Cat. No.:	HY-160519
CAS No.:	955918-74-8
Molecular Formula:	C <sub>26</sub> H <sub>22</sub> ClNO <sub>6</sub>
Molecular Weight:	479.91
Target:	Bacterial; Antibiotic
Pathway:	Anti-infection
Storage:	<div> Powder -20°C 3 years </div> <div> 4°C 2 years </div> <div> In solvent -80°C 6 months </div> <div> -20°C 1 month </div>



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (208.37 mM; Need ultrasonic)				
	Preparing Stock Solutions	<div>Solvent Concentration</div> <div>Mass</div>	1 mg	5 mg	10 mg
		1 mM	2.0837 mL	10.4186 mL	20.8372 mL
		5 mM	0.4167 mL	2.0837 mL	4.1674 mL
		10 mM	0.2084 mL	1.0419 mL	2.0837 mL
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (5.21 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (5.21 mM); Clear solution				

### BIOLOGICAL ACTIVITY

Description	Targocil-II (Compound 2) is an ABC transporter inhibitor with a IC <sub>50</sub> value of 137 nM. Targocil-II prevents ATP hydrolysis by binding to allosteric sites of the TM domain. Targocil-II has (antibacterial) activity <sup>[1]</sup> .
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### REFERENCES

[1]. Matano LM, et al. Antibiotic That Inhibits the ATPase Activity of an ATP-Binding Cassette Transporter by Binding to a Remote Extracellular Site. J Am Chem Soc. 2017 Aug 9;139(31):10597-10600.

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

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