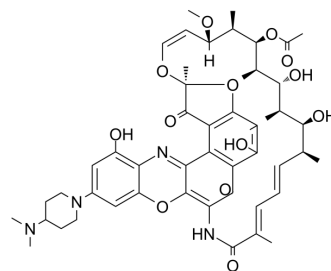


## dmDNA31

<b>Cat. No.:</b>	HY-128916		
<b>CAS No.:</b>	845625-44-7		
<b>Molecular Formula:</b>	C <sub>50</sub> H <sub>62</sub> N <sub>4</sub> O <sub>13</sub>		
<b>Molecular Weight:</b>	927.05		
<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 (26.97 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	<b>Preparing Stock Solutions</b>	1 mM	1.0787 mL	5.3935 mL	10.7869 mL
		5 mM	0.2157 mL	1.0787 mL	2.1574 mL
10 mM		0.1079 mL	0.5393 mL	1.0787 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 (2.70 mM); Clear solution  2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (2.70 mM); Clear solution				

### BIOLOGICAL ACTIVITY

<b>Description</b>	dmDNA31 is a rifamycin-class antibiotic that inhibits bacterial DNA-dependent RNA polymerase with potent bactericidal activity against <i>S. aureus</i> <sup>[1]</sup> .
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### REFERENCES

[1]. Peck M, et al. A Phase 1, Randomized, Single-Ascending-Dose Study To Investigate the Safety, Tolerability, and Pharmacokinetics of DSTA4637S, an Anti-Staphylococcus aureus Thiomab Antibody-Antibiotic Conjugate, in Healthy Volunteers. *Antimicrob Agents Chem*

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

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