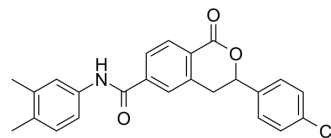


## PqsR/LasR-IN-1

Cat. No.:	HY-146327	
CAS No.:	924818-33-7	
Molecular Formula:	C <sub>24</sub> H <sub>20</sub> ClNO <sub>3</sub>	
Molecular Weight:	405.87	
Target:	Bacterial; Antibiotic	
Pathway:	Anti-infection	
Storage:	Powder	-20°C 3 years 4°C 2 years
	In solvent	-80°C 6 months -20°C 1 month



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (246.38 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.4638 mL	12.3192 mL	24.6384 mL
		5 mM	0.4928 mL	2.4638 mL	4.9277 mL
10 mM		0.2464 mL	1.2319 mL	2.4638 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: 2.5 mg/mL (6.16 mM); Clear solution; Need ultrasonic				

### BIOLOGICAL ACTIVITY

Description	PqsR/LasR-IN-1 (compound 2a) is a potent PqsR and LasR systems inhibitor. PqsR/LasR-IN-1 has anti-virulence activity against <i>Pseudomonas aeruginosa</i> . PqsR/LasR-IN-1 can reduce production of biofilm, pyocyanin, and rhamnolipids in PA <sup>[1]</sup> .
IC <sub>50</sub> & Target	<i>Pseudomonas aeruginosa</i> <sup>[1]</sup>

### REFERENCES

[1]. Mohammad Anwar Hossain, et al. Design, synthesis, and evaluation of compounds capable of reducing *Pseudomonas aeruginosa* virulence. *Eur J Med Chem.* 2020 Jan 1;185:111800.

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

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