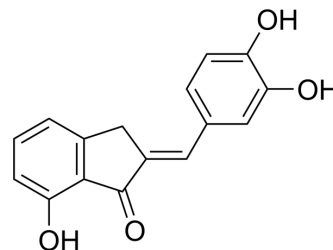


## NDM-1 inhibitor-3

<b>Cat. No.:</b>	HY-150758		
<b>Molecular Formula:</b>	C <sub>16</sub> H <sub>12</sub> O <sub>4</sub>		
<b>Molecular Weight:</b>	268.26		
<b>Target:</b>	Bacterial; Beta-lactamase		
<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 : 100 mg/mL (372.77 mM; Need ultrasonic)					
	<b>Preparing Stock Solutions</b>	<b>Solvent</b>	<b>Mass</b>	<b>1 mg</b>	<b>5 mg</b>	<b>10 mg</b>
		<b>Concentration</b>				
		<b>1 mM</b>		3.7277 mL	18.6386 mL	37.2773 mL
		<b>5 mM</b>		0.7455 mL	3.7277 mL	7.4555 mL
<b>10 mM</b>		0.3728 mL	1.8639 mL	3.7277 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 (9.32 mM); Clear solution  2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (9.32 mM); Clear solution					

### BIOLOGICAL ACTIVITY

<b>Description</b>	NDM-1 inhibitor-3 (Compound 89) is a New Delhi Metallo-β-lactamase-1 (NDM-1) inhibitor with a K <sub>i</sub> of 4 μM <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	NDM-1 <sup>[1]</sup>
<b>In Vitro</b>	New Delhi Metallo-β-lactamase-1 (NDM-1), a metallo-β-lactamase (MBL) first discovered at the end of 2008, is now considered as the most clinically relevant target for antibiotic resistance due to its worldwide prevalence <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

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

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