## Antibacterial agent 123

**MedChemExpress** 

Cat. No.:	HY-151567	F
CAS No.:	2615254-55-0	F K
Molecular Formula:	$C_{17}H_{8}F_{9}N_{3}O$	F
Molecular Weight:	441.25	N NH C
Target:	Bacterial	
Pathway:	Anti-infection	F
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	F <sup>-</sup>     F

F

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Product Data Sheet

BIOLOGICAL ACTI	/ІТҮ ————											
Description	Antibacterial agent 123 (compound 111) is a potent membrane-disrupting agent to combat antibiotic-resistant Gram-positive bacteria <sup>[1]</sup> .											
In Vitro	Antibacterial agent 123 (compound 111) shows excellent activity (MIC<0.0625 μg/mL) toward S. aureus strains <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.											
In Vivo	Antibacterial agent 123 (compound 111) (p.o. (10 mg/kg) and i.v. (0.5 mg/kg); once) exhibits favorable pharmacokinetics profiles <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.											
	Animal Model:	Female CD-1 mice <sup>[1]</sup>										
	Dosage:	0.5 mg/kg, 10 mg/kg										
	Administration:	p.o. (10 mg/kg) and i.v. (0.5 mg/kg); once (Pharmacokinetic Analysis)										
	Result: Pharmacokinetic Parameters of Antibacterial agent 123 in Female CD-1 Mice <sup>[1]</sup> .											
		pharmacokinetic indices	dose i.v., p.o. (mg/kg)	AUC <sub>0-24</sub> (i.v., h∙ng/mL)	Vd (i.v., mL/kg)	CL (i.v., mL/(kg·h))	t <sub>1/2</sub> (i.v., h)	AUC <sub>0-24</sub> (p.o., h∙ng/mL)	C <sub>max</sub> (p.o., ng/mL)	F (%)		
		compound 111	0.5, 10	(4.20 × 10 <sup>3</sup> ) ± 308	322 ± 24	119±9.2	1.88 ± 0.08	(4.33 × 10 <sup>4</sup> ) ± 543	(3.10 × 10 <sup>3</sup> ) ± 780	51.6 ± 5.2		

## REFERENCES

[1]. Schultz JR, et al. Identification of 5-(Aryl/Heteroaryl)amino-4-quinolones as Potent Membrane-Disrupting Agents to Combat Antibiotic-Resistant Gram-Positive

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

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