## Alexidine

®

MedChemExpress

Product Data Sheet

BIOLOGICAL AC	ΤΙVΙΤΥ		
Description	Alexidine, a bis-biguanide, exhibits antifungal and antibiofilm activity against a diverse range of fungal pathogens. Alexidin is an anticancer agent that targets a mitochondrial tyrosine phosphatase, PTPMT1, in mammalian cells and causes mitochondrial apoptosis <sup>[1]</sup> .		
In Vitro	Alexidine (10 μM, 24 hours) treatment can decimate the biofilm community <sup>[1]</sup> . Alexidine (0-60 μg/ml, 24 hours) treatment can kill HUVECs and lung A549 cells <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Viability Assay <sup>[1]</sup>		
	Cell Line:	C. albicans, C. auris, A. fumigatus	
	Concentration:	10 μΜ	
	Incubation Time:	24 hours	
	Result:	Could significantly kill 80% of mature biofilm community.	
	Cell Viability Assay <sup>[1]</sup>		
	Cell Line:	HUVECs, lung A549 cells	
	Concentration:	0-60 μg/ml	
	Incubation Time:	24 hours	
	Result:	resulted in 50% killing of HUVECs and lung A549 cells ( $CC_{50}$ > 7.37 $\mu g/ml$ ).	
In Vivo	Alexidine (Jugular vein-catheterized; 48 hours; 3 μg/ml; once) can decimate preformed biofilms growing in the jugular vein catheters of mice <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
	Animal Model:	8-week-old C57BL/6 male mice	
	Dosage:	3 μg/ml	

Administration:	Jugular vein-catheterized, 48 hours, 3 µg/ml, once
Result:	Inhibited 67% of fungal biofilm growth and viability, compared to the control untreated biofilms.

## CUSTOMER VALIDATION

• Int J Parasitol Drugs Drug Resist. July 2022.

See more customer validations on www.MedChemExpress.com

## REFERENCES

[1]. Zeinab Mamouei, et al. Alexidine Dihydrochloride Has Broad-Spectrum Activities against Diverse Fungal Pathogens. mSphere. 2018 Oct 31;3(5):e00539-18.

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

 Tel: 609-228-6898
 Fax: 609-228-5909
 E-mail: tech@MedChemExpress.com

 Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA