Alexidine

Cat. No.:HY-B1474CAS No.:22573-93-9Molecular Formula:C26H56N10Molecular Weight:508.79Target:FungalPathway:Anti-infectionStorage:Please store the product under the recommended condition Analysis.	$\sum_{n} H_{n}^{n} H_{n}^{n} + \sum_{n} H_{n}^{n} H_{n}^{n}$
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BIOLOGICAL ACTIVI	ТҮ
Description	Alexidine, a bis-biguanide, exhibits antifungal and antibiofilm activity against a diverse range of fun is an anticancer agent that targets a mitochondrial tyrosine phosphatase, PTPMT1, in mammalian c mitochondrial apoptosis ^[1] .
In Vitro	Alexidine (10 μM, 24 hours) treatment can decimate the biofilm community ^[1] . Alexidine (0-60 μg/ml, 24 hours) treatment can kill HUVECs and lung A549 cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Viability Assay ^[1]

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^[1]

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 $\mu\text{g/ml}$).

In Vivo

Alexidine (Jugular vein-catheterized; 48 hours; 3 µg/ml; once) can decimate preformed biofilms growing in the jugular vein catheters of mice^[1].

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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.

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.

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