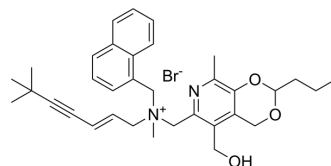


KFU-127

Cat. No.:	HY-147814
Molecular Formula:	C ₃₄ H ₄₃ BrN ₂ O ₃
Molecular Weight:	607.62
Target:	Bacterial; Fungal
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	KFU-127 (Compound 6b) is a broad spectrum topical antimicrobial capable of one-shot targeting of bacterial and fungal-bacterial biofilms. KFU-127 is considerably toxic for eukaryotic cells ^[1] . KFU-127 is a click chemistry reagent, it contains an Alkyne group and can undergo copper-catalyzed azide-alkyne cycloaddition (CuAAC) with molecules containing Azide groups.
In Vitro	KFU-127 (Compound 6b) shows antimycotic activity with MIC values of 0.38, 3.1, 3.1 and 3.1 µg/mL against <i>Candida albicans</i> , <i>Trichophyton rubrum</i> , <i>Aspergillus fumigatus</i> and <i>Fusarium oxysporum</i> , respectively ^[1] . KFU-127 shows antibacterial activity with MIC values of 4, 4, 4 and 16 µg/mL against <i>S. aureus</i> ATCC 29213, <i>B. subtilis</i> 168, <i>S. epidermidis</i> and <i>E. coli</i> MG1655, respectively ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Garipov MR, et al. Targeting pathogenic fungi, bacteria and fungal-bacterial biofilms by newly synthesized quaternary ammonium derivative of pyridoxine and terbinafine with dual action profile. *Bioorg Chem.* 2020 Nov;104:104306.

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

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