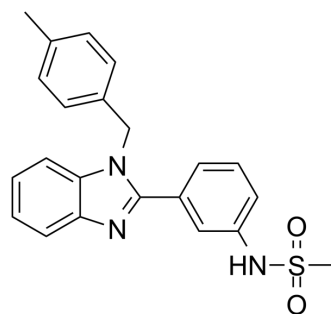


## Antimicrobial agent-1

Cat. No.:	HY-146078
CAS No.:	2579696-45-8
Molecular Formula:	C <sub>22</sub> H <sub>21</sub> N <sub>3</sub> O <sub>2</sub> S
Molecular Weight:	391.49
Target:	Bacterial
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

Description	Antimicrobial agent-1 (compound 6C) possesses potent activity against TolC mutant <i>E. coli</i> with an MIC value of 2 µg/mL. Antimicrobial agent-1 and Colistin exhibit synergistic activity against Gram-negative bacteria. Antimicrobial agent-1 has no cytotoxicity on mammalian cell lines, with MICs > 128 µg/mL in Caco-2 and Vero cell lines <sup>[1]</sup> .
IC <sub>50</sub> & Target	IC <sub>50</sub> : 2 µg/mL (TolC mutant <i>E. coli</i> ) <sup>[1]</sup>

### REFERENCES

[1]. Dokla EME, et al. Development of benzimidazole-based derivatives as antimicrobial agents and their synergistic effect with colistin against gram-negative bacteria. Eur J Med Chem. 2020;186:111850.

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

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