

## Antimicrobial agent-28

<b>Cat. No.:</b>	HY-161423
<b>Molecular Formula:</b>	C <sub>78</sub> H <sub>112</sub> N <sub>20</sub> O <sub>20</sub> S <sub>3</sub>
<b>Molecular Weight:</b>	1746.04
<b>Sequence:</b>	Ala-Cys-Ser-Phe-Pro-Lys-Cys-Pro-Trp-Val-Glu-Gly-Cys-Ala-NH <sub>2</sub> (TATA covalent with Cys <sub>2</sub> ,Cys <sub>7</sub> ,Cys <sub>13</sub> )
<b>Sequence Shortening:</b>	ACSFPKCPWEGCA-NH <sub>2</sub> (TATA covalent with Cys <sub>2</sub> ,Cys <sub>7</sub> ,Cys <sub>13</sub> )
<b>Target:</b>	Bacterial
<b>Pathway:</b>	Anti-infection
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.

### BIOLOGICAL ACTIVITY

#### Description

Antimicrobial agent-28 (Compound Bicycle molecule) is an antibacterial agent with good affinity for the penicillin-binding protein (PBP3) of Escherichia coli, which can inhibit the activity of Escherichia coli<sup>[1]</sup>.

### REFERENCES

[1]. Rowland C E, Newman H, Martin T T, et al. Discovery and chemical optimisation of a Potent, Bi-cyclic (Bicycle<sup>®</sup>) Antimicrobial Inhibitor of Escherichia coli PBP3[J]. bioRxiv, 2024: 2024.03. 20.581580.

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

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