

## **Product** Data Sheet

## **Antibacterial agent 202**

Cat. No.: HY-161404 Molecular Formula:  $C_{34}H_{39}FN_2O_7$ 

Molecular Weight: 606.68

Target: Bacterial

Pathway: Anti-infection

Storage: Please store the product under the recommended conditions in the Certificate of

Analysis.

## **BIOLOGICAL ACTIVITY**

**Description**Antibacterial agent 202 (compound 45c) is a low cytotoxic bacterial inhibitor with good activity against Gram-negative

bacteria, including Escherichia coli, Klebsiella pneumonia, especially Pseudomonas aeruginosa, (MIC (minimum inhibitory concentration)=7.8-31.25  $\mu$ M). Antibacterial agent 202 can exert antibacterial activity by destroying the integrity of cell

membranes and can be used in the research of bacterial infections[1].

In Vitro Antibacterial agent 202 (12.5-50  $\mu$ M; 24-72 h) exhibits antibacterial efficacy in C. Elegans infection model<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:	P. aeruginosa PAO1-infected C. elegans model
Concentration:	12.5, 25, 50 μΜ
Incubation Time:	24, 48, 72 h
Result:	Increased the survival rate of C. elegans to 50% after 72 h.

## **REFERENCES**

[1]. Huang YJ, et al. Cajaninstilbene acid derivatives conjugated with siderophores of 3-hydroxypyridin-4(1H)-ones as novel antibacterial agents against Gram-negative bacteria based on the Trojan horse strategy. Eur J Med Chem. 2024 Apr 5;269:116339.

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