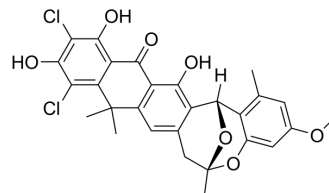


Bischloroanthrabenzoxocinone

Cat. No.:	HY-135130
CAS No.:	866022-28-8
Molecular Formula:	C ₂₈ H ₂₄ Cl ₂ O ₇
Molecular Weight:	543.39
Target:	Bacterial
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Bischloroanthrabenzoxocinone is a potent Type II fatty acid synthesis (FASII) inhibitor. Bischloroanthrabenzoxocinone inhibits fatty acid synthesis. Bischloroanthrabenzoxocinone shows antibacterial activities and inhibits phospholipid, DNA, RNA, protein, and cell wall synthesis ^[1] .
In Vitro	<p>Bischloroanthrabenzoxocinone (0.01-333 µg/mL) inhibits fatty acid synthesis with the IC₅₀ values of 11.4, 35.3 µg/mL for Staphylococcus aureus and Escherichia coli, respectively^[1].</p> <p>Bischloroanthrabenzoxocinone (0-250 µg/mL) shows antibacterial activities with MIC values of 0.2, >250 µg/mL for Staphylococcus aureus and wild type Escherichia coli, respectively^[1].</p> <p>Ischloroanthrabenzoxocinone inhibits phospholipid synthesis with an IC₅₀ value of 0.21 µg/ml, and it also inhibits DNA, RNA, protein, and cell wall syntheses in Staphylococcus aureus and Escherichia coli^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

REFERENCES

[1]. Kodali S, et al. Determination of selectivity and efficacy of fatty acid synthesis inhibitors. J Biol Chem. 2005 Jan 14;280(2):1669-77.

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