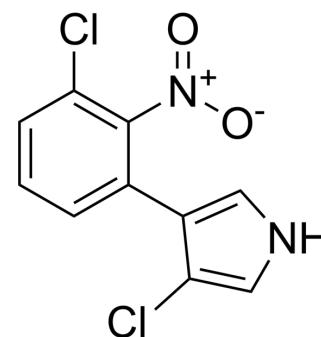


Pyrrolnitrin

Cat. No.:	HY-133704	
CAS No.:	1018-71-9	
Molecular Formula:	C ₁₀ H ₆ Cl ₂ N ₂ O ₂	
Molecular Weight:	257.07	
Target:	Bacterial; Fungal; Antibiotic	
Pathway:	Anti-infection	
Storage:	Powder	-20°C 3 years
	In solvent	-80°C 6 months
		-20°C 1 month



BIOLOGICAL ACTIVITY

Description	Pyrrolnitrin is an antibiotic isolated from <i>Pseudomonas pyrrocinia</i> . Pyrrolnitrin shows a broad spectrum of antibiotic activity against fungi, yeast and gram-positive bacteria ^[1] .
IC₅₀ & Target	Target: fungi, yeast and gram-positive bacteria ^[1]
In Vitro	<p>Pyrrolnitrin (0-100 µg/ml) shows antibiotic activities against various bacteria and fungi with different MIC values. It against <i>Staphylococcus aureus</i>, <i>Mycobacterium</i>, <i>Bacillus subtilis</i>, <i>Candida albicans</i>, <i>Aspergillus niger</i>, and <i>Trichophyton rubrum</i> with MIC values of 50 µg/ml, 100 µg/ml, 0.78 µg/ml, 10 µg/ml, 12.5 µg/ml, and 1 µg/ml, respectively^[1].</p> <p>Pyrrolnitrin (0-100 µg/ml) exhibits antimicrobial effect in a microtitre plate assay. It against <i>Arthrobacter oxydans</i> ATCC 14358, <i>Bacillus coagulans</i> ATCC 7050, <i>Bacillus licheniformis</i> ATCC 14580, <i>Bacillus subtilis</i> ATCC 6051, and <i>Bacillus thuringiensis</i> ATCC 10792 with MIC of 6.25 µg/ml^[2].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

REFERENCES

- [1]. K H van Pée, et al. Biosynthesis of Pyrrolnitrin and Other Phenylpyrrole Derivatives by Bacteria. *Nat Prod Rep*. 2000 Apr;17(2):157-64.
- [2]. N el-Banna, et al. Pyrrolnitrin From *Burkholderia Cepacia*: Antibiotic Activity Against Fungi and Novel Activities Against Streptomycetes. *J Appl Microbiol*. 1998 Jul;85(1):69-78.
- [3]. R S Gordee, et al. Systemic Antifungal Activity of Pyrrolnitrin. *Appl Microbiol*. 1969 May;17(5):690-4.

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