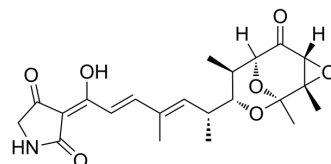


Tirandamycin A

Cat. No.:	HY-126406
CAS No.:	34429-70-4
Molecular Formula:	C ₂₂ H ₂₇ NO ₇
Molecular Weight:	417.45
Target:	Bacterial; Parasite; Antibiotic; DNA/RNA Synthesis
Pathway:	Anti-infection; Cell Cycle/DNA Damage
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Tirandamycin A, an antibiotic, is a bacterial RNA polymerase inhibitor. Tirandamycin A has antiamoebic and antibacterial properties ^{[1][2]} .
IC ₅₀ & Target	Amebae
In Vitro	A 60 μM treatment with Tirandamycin A results in a slightly stronger inhibition, demonstrating a 84.2% reduction in growth of <i>Entamoeba histolytica</i> HM-1:IMSS and 64.8% reduction in growth by <i>Entamoeba histolytica</i> Col. Tirandamycin A inhibits chain initiation and elongation of bacterial RNA polymerase without acting on mammalian polymerases ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Avelina Espinosa, et al. Antiamoebic properties of the actinomycete metabolites echinomycin A and tirandamycin A. *Parasitol Res.* 2012 Dec;111(6):2473-7.
- [2]. H Hagenmaier, et al. Metabolic products of microorganisms. Tirandamycin B(author's transl). *Arch Microbiol.* 1976 Aug;109(1-2):65-74.

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

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