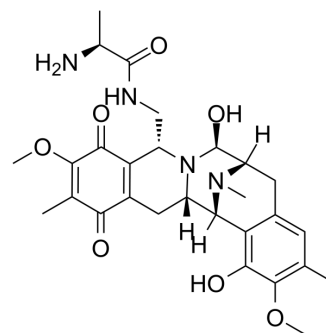


Safracin B

Cat. No.:	HY-126804
CAS No.:	87578-99-2
Molecular Formula:	C ₂₈ H ₃₆ N ₄ O ₇
Molecular Weight:	540.61
Target:	Antibiotic
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Safracin B, a tetrahydroisoquinoline (THIQ) alkaloid, is a naturally occurring antibiotic from <i>Pseudomonas fluorescens</i> . Safracin B exhibits broad spectrum antimicrobial and strong antitumor activities ^[1] .
In Vivo	Safracin B (0.005-5 mg/kg/day; for 9 days) prolongs the life span of tumor-bearing mice and shows antitumor activity against L1210 and P388 leukemias and B16 melanoma in Female BALB/c x DBA/2 F ₁ (CD2F ₁) mice weighing 19-24 g ^[2] . The LD ₅₀ is 7.3 mg/kg with safracin B in normal CD2F ₁ mice by ip administration ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Gong-Li Tang, et al. Biosynthesis of Tetrahydroisoquinoline Antibiotics. *Curr Top Med Chem*. 2016;16(15):1717-26.

[2]. T Okumoto, et al. Activity of Safracins A and B, Heterocyclic Quinone Antibiotics, on Experimental Tumors in Mice. *J Antibiot (Tokyo)*. 1985 Jun;38(6):767-71.

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

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