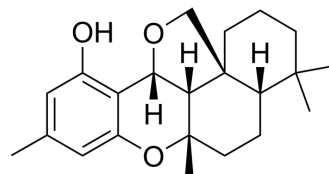


Siccanin

Cat. No.:	HY-106371
CAS No.:	22733-60-4
Molecular Formula:	C ₂₂ H ₃₀ O ₃
Molecular Weight:	342.47
Target:	Antibiotic; Fungal
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Siccanin is a succinate dehydrogenase (SDH) inhibitor (IC ₅₀ =0.9 μM) with species-selective activity. Siccanin also is a antibiotic against pathogenic fungi ^[1] .
IC₅₀ & Target	Succinate Dehydrogenase Inhibitor
In Vitro	<p>Siccanin (10 μg/mL) is species-selective, and Siccanin inhibits bacterial SDH from <i>P. aeruginosa</i> and <i>P. putida</i> but not SDH from <i>E. coli</i>, and <i>C. glutamicum</i>; Siccanin inhibits rodent SDH but not porcine SDH^[1].</p> <p>Specifically, Siccanin inhibits SDH from <i>P. aeruginosa</i> (residual activity 13%) and <i>P. putida</i> (>1%) membranes, and of mouse (>7%) and rat (19%) liver mitochondria, but not SDH from <i>E. coli</i> (77%) and <i>C. glutamicum</i> (97%) membranes and of porcine heart mitochondria (106%)^[1].</p> <p>Siccanin (3 μg/mL) completely inhibits the growth of Trichophyton mentagrophytes (IC₅₀=0.3 μg/mL)^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

REFERENCES

[1]. Mogi T, et al. Siccanin rediscovered as a species-selective succinate dehydrogenase inhibitor. J Biochem. 2009 Sep;146(3):383-7.

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

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