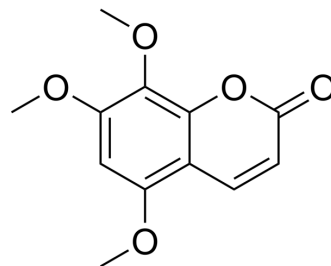


5,7,8-Trimethoxycoumarin

Cat. No.:	HY-N2656
CAS No.:	60796-65-8
Molecular Formula:	C ₁₂ H ₁₂ O ₅
Molecular Weight:	236.22
Target:	Parasite
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	5,7,8-Trimethoxycoumarin is an anti-parasite agent with IC ₅₀ s of 25.5 μM and 57.7 μM against <i>Trypanosoma cruzi</i> and <i>L. amazonensis</i> , respectively ^[1] .	
IC₅₀ & Target	Trypanosoma	
In Vitro	5,7,8-Trimethoxycoumarin (0-100 μM; 72 h) inhibits the proliferation of <i>Trypanosoma cruzi</i> and <i>L. amazonensis</i> ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Proliferation Assay ^[1]	
	Cell Line:	<i>Trypanosoma cruzi</i> (epimastigotes) and <i>L. amazonensis</i> (promastigote)
	Concentration:	1.5, 3.1, 6.2, 12.5, 25, 50 and 100 μM
	Incubation Time:	72 h
	Result:	Inhibited the proliferation in a dose-dependent manner with IC ₅₀ s of 25.5 μM and 57.7 μM against <i>Trypanosoma cruzi</i> and <i>L. amazonensis</i> , respectively.

REFERENCES

[1]. Costa R S, et al. In vitro antileishmanial and antitrypanosomal activity of compounds isolated from the roots of *Zanthoxylum tingoassuiba*. *Revista Brasileira de Farmacognosia*, 2018, 28: 551-558.

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

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