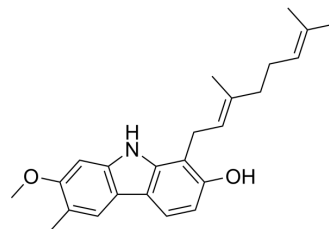


Murrayanol

Cat. No.:	HY-116933
CAS No.:	144525-81-5
Molecular Formula:	C ₂₄ H ₂₉ NO ₂
Molecular Weight:	363.49
Target:	Topoisomerase; Bacterial
Pathway:	Cell Cycle/DNA Damage; Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Murrayanol is a natural carbazole alkaloid with a variety of biological activities. Murrayanol shows anti-inflammatory, topoisomerase I and topoisomerase II (Topoisomerase) inhibition activities. Murrayanol also as a mosquitocidal and antimicrobial ^[1] .
In Vitro	<p>Murrayanol (Compound 2) shows an IC₅₀ of 109 µg/mL against human prostaglandin H synthase isozyme 1 (hPGHS-1) and an IC₅₀ of 218 µg/mL against hPGHS-2 in anti-inflammatory assays^[1].</p> <p>Murrayanol (Compound 2) shows 100% mortality at 12.5 µg/mL concentrations for <i>Aedes aegyptii</i>^[1].</p> <p>Murrayanol (Compound 2) completely inhibits topoisomerase I and II activity at 50 µg/mL concentrations when tested on <i>S. cerevisiae</i> mutant strains^[1].</p> <p>Murrayanol (Compound 2) shows an MIC₁₀₀ of 100 µg/mL against <i>C. kruseii</i> and <i>E. coli</i> but give an MIC₁₀₀ against <i>S. aureus</i> and <i>S. pyogenes</i> at 25 µg/mL^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

REFERENCES

[1]. R S Ramsewak, et al. Biologically active carbazole alkaloids from *Murraya koenigii*. *J Agric Food Chem.* 1999 Feb;47(2):444-7.

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

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