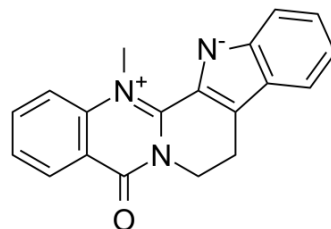


Dehydroevodiamine

Cat. No.:	HY-N2106
CAS No.:	67909-49-3
Molecular Formula:	C ₁₉ H ₁₅ N ₃ O
Molecular Weight:	301.34
Target:	NF-κB; COX; PGE synthase; NO Synthase
Pathway:	NF-κB; Immunology/Inflammation
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



SOLVENT & SOLUBILITY

In Vitro

DMSO : 8.33 mg/mL (27.64 mM; Need ultrasonic)

Concentration	Mass			
	1 mg	5 mg	10 mg	
1 mM	3.3185 mL	16.5926 mL	33.1851 mL	
5 mM	0.6637 mL	3.3185 mL	6.6370 mL	
10 mM	0.3319 mL	1.6593 mL	3.3185 mL	

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Dehydroevodiamine is a major bioactive quinazoline alkaloid isolated from Evodiae Fructus, has an antiarrhythmic effect in guinea-pig ventricular myocytes^[1]. Dehydroevodiamine inhibits LPS-induced iNOS, COX-2, prostaglandin E2 (PGE2) and nuclear factor-kappa B (NF-κB) expression in murine macrophage cells^[2].

IC₅₀ & Target

iNOS; COX-2; PGE2; NF-κB^[2]

In Vitro

Dehydroevodiamine (0-50 μM; 2 hours) inhibits iNOS and COX-2 expression and prevents degradation of IκB-α in LPS induced RAW 264.7 macrophages^[2].

Dehydroevodiamine (0-50 μM; 2 hours) inhibits a LPS-induced increase in the iNOS and COX-2 mRNA expression^[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Western Blot Analysis^[2]

Cell Line: RAW 264.7 macrophage cells

Concentration: 10 μM, 30 μM, 50 μM

Incubation Time: pretreated 2 hours

Result:	Reduced iNOS and COX-2 expression and increased I κ B- α expression.
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RT-PCR ^[2]

Cell Line:	RAW 264.7 macrophage cells
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Concentration:	10 μ M, 30 μ M, 50 μ M
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Incubation Time:	pretreated 2 hours
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Result:	Reduced iNOS and COX-2 mRNA expression.
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REFERENCES

[1]. Loh SH, et al. Antiarrhythmic effects of dehydroevodiamine in isolated human myocardium and cardiomyocytes. *J Ethnopharmacol.* 2014 May 14;153(3):753-62.

[2]. Noh EJ, et al. Inhibition of lipopolysaccharide-induced iNOS and COX-2 expression by dehydroevodiamine through suppression of NF-kappaB activation in RAW 264.7 macrophages. *Life Sci.* 2006 Jul 10;79(7):695-701. Epub 2006 Mar 6.

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

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