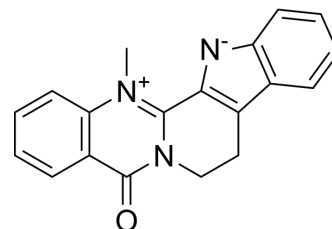


## Dehydroevodiamine

<b>Cat. No.:</b>	HY-N2106
<b>CAS No.:</b>	67909-49-3
<b>Molecular Formula:</b>	C <sub>19</sub> H <sub>15</sub> N <sub>3</sub> O
<b>Molecular Weight:</b>	301.34
<b>Target:</b>	NF-κB; COX; PGE synthase; NO Synthase
<b>Pathway:</b>	NF-κB; Immunology/Inflammation
<b>Storage:</b>	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 8.33 mg/mL (27.64 mM; Need ultrasonic)				
	Solvent Concentration	Mass	1 mg	5 mg	10 mg
<b>Preparing Stock Solutions</b>	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.				
<b>In Vivo</b>	1. Add each solvent one by one: 0.5% CMC-Na/saline water Solubility: 10 mg/mL (33.19 mM); Suspended solution; Need ultrasonic				

### BIOLOGICAL ACTIVITY

<b>Description</b>	Dehydroevodiamine is a major bioactive quinazoline alkaloid isolated from Evodiae Fructus, has an antiarrhythmic effect in guinea-pig ventricular myocytes <sup>[1]</sup> . Dehydroevodiamine inhibits LPS-induced iNOS, COX-2, prostaglandin E2 (PGE2) and nuclear factor-kappa B (NF-κB) expression in murine macrophage cells <sup>[2]</sup> .	
<b>IC<sub>50</sub> &amp; Target</b>	iNOS	
<b>In Vitro</b>	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 <sup>[2]</sup> . Dehydroevodiamine (0-50 μM; 2 hours) inhibits a LPS-induced increase in the iNOS and COX-2 mRNA expression <sup>[2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Western Blot Analysis <sup>[2]</sup>	
	Cell Line:	RAW 264.7 macrophage cells

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Concentration:	10 $\mu$ M, 30 $\mu$ M, 50 $\mu$ M
Incubation Time:	pretreated 2 hours
Result:	Reduced iNOS and COX-2 expression and increased $\kappa$ B- $\alpha$ expression.

RT-PCR<sup>[2]</sup>

Cell Line:	RAW 264.7 macrophage cells
Concentration:	10 $\mu$ M, 30 $\mu$ M, 50 $\mu$ M
Incubation Time:	pretreated 2 hours
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.

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

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