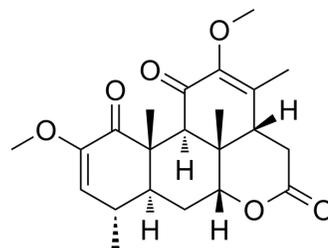


Quassin

Cat. No.:	HY-N1581
CAS No.:	76-78-8
Molecular Formula:	C ₂₂ H ₂₈ O ₆
Molecular Weight:	388.45
Target:	Parasite
Pathway:	Anti-infection
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



BIOLOGICAL ACTIVITY

Description	Quassin (Nigakilactone D) is a bioactive triterpenoid from stem bark extract of <i>Quassia amara</i> . Quassin inhibits <i>P. falciparum</i> with an IC ₅₀ of 0.15 μM. Quassin possesses reversible antifertility, anti-estrogenic and anti-plasmodial activity ^{[1][2]} .								
IC₅₀ & Target	IC ₅₀ : 0.15 μM (<i>P. falciparum</i>) ^[2]								
In Vitro	Quassin (Compound 1; 5-25 ng/mL) inhibits both the basal and luteinizing hormone-stimulated testosterone secretion of rat Leydig cells in a dose-dependent fashion ^[3] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.								
In Vivo	<p>Quassin (0.1-2.0 mg/kg; oral administration; daily; for 60 days; females albino rats) treatment shows a significant decrease in the weight of the ovary and uterus. And also shows a significant decrease in serum estrogen levels in quassin treated rats. The Quassin treated rats has a significantly decreased mean litter number and weight. Quassin does not adversely affect the weight of the kidney, heart, liver and the body of the rats^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <table border="1"> <tr> <td>Animal Model:</td> <td>35 females albino rats (150-170 g)^[1]</td> </tr> <tr> <td>Dosage:</td> <td>0.1 mg/kg, 1.0 mg/kg and 2.0 mg/kg</td> </tr> <tr> <td>Administration:</td> <td>Oral administration; daily; for 60 days</td> </tr> <tr> <td>Result:</td> <td>There was a significant decrease in the weight of the ovary and uterus in all the groups relative to the control. There was also a significant decrease in serum estrogen levels in quassin treated rats.</td> </tr> </table>	Animal Model:	35 females albino rats (150-170 g) ^[1]	Dosage:	0.1 mg/kg, 1.0 mg/kg and 2.0 mg/kg	Administration:	Oral administration; daily; for 60 days	Result:	There was a significant decrease in the weight of the ovary and uterus in all the groups relative to the control. There was also a significant decrease in serum estrogen levels in quassin treated rats.
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REFERENCES

[1]. Raji Y, et al. Reproductive activities of female albino rats treated with quassin, a bioactive triterpenoid from stem bark extract of *Quassia amara*. *Niger J Physiol Sci*. 2010 Nov 24;25(2):95-102.

[2]. Mishra K, et al. Plasmodium falciparum: in vitro interaction of quassin and neo-quassin with artesunate, a hemisuccinate derivative of artemisinin. *Exp Parasitol*. 2010 Apr;124(4):421-7.

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

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