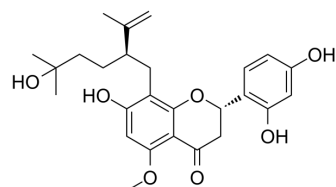


Kurarinol

Cat. No.:	HY-122933
CAS No.:	855746-98-4
Molecular Formula:	C ₂₆ H ₃₂ O ₇
Molecular Weight:	456.53
Target:	Tyrosinase; Apoptosis
Pathway:	Metabolic Enzyme/Protease; Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Kurarinol is a flavanone found in the root of <i>Sophora flavescens</i> . Kurarinol is a competitive tyrosinase inhibitor, with IC ₅₀ of 0.1 μM for mushroom tyrosinase ^[1] .									
IC₅₀ & Target	IC ₅₀ : 0.1 μM (mushroom tyrosinase) ^[1]									
In Vitro	<p>Kurarinol manifests relatively low cytotoxic activity (EC₅₀>30 μM)^[1].</p> <p>Kurarinol inhibits production of melanin in <i>S. bikiniensis</i> without affecting the growth of microorganism^[1].</p> <p>Kurarinol induces hepatocellular carcinoma cell apoptosis through suppressing cellular signal transducer and activator of transcription 3 signaling (STAT3)^[2].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>									
In Vivo	<p>Kurarinol (20 mg/kg; p.o.; daily; for 3 days) reduces serum lipid levels in high-Cholesterol diet induced hyperlipidemic rats^[3].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <table border="1" data-bbox="341 1291 1518 1543"> <tr> <td>Animal Model:</td> <td>Male Sprague-Dawley rats (120-130g), hypercholesterolemic models^[3]</td> </tr> <tr> <td>Dosage:</td> <td>20 mg/kg</td> </tr> <tr> <td>Administration:</td> <td>Oral administration, daily, for 3 days</td> </tr> <tr> <td>Result:</td> <td>Decreased serum TC, TG, and LDL-C levels.</td> </tr> </table>		Animal Model:	Male Sprague-Dawley rats (120-130g), hypercholesterolemic models ^[3]	Dosage:	20 mg/kg	Administration:	Oral administration, daily, for 3 days	Result:	Decreased serum TC, TG, and LDL-C levels.
Animal Model:	Male Sprague-Dawley rats (120-130g), hypercholesterolemic models ^[3]									
Dosage:	20 mg/kg									
Administration:	Oral administration, daily, for 3 days									
Result:	Decreased serum TC, TG, and LDL-C levels.									

REFERENCES

- [1]. Y B Ryu, et al. Kurarinol, tyrosinase inhibitor isolated from the root of *Sophora flavescens*. *Phytomedicine*. 2008 Aug;15(8):612-8.
- [2]. Guangwen Shu, et al. Kurarinol induces hepatocellular carcinoma cell apoptosis through suppressing cellular signal transducer and activator of transcription 3 signaling. *Toxicol Appl Pharmacol*. 2014 Dec 1;281(2):157-65.
- [3]. Hyun Young Kim, et al. Hypolipidemic effects of *Sophora flavescens* and its constituents in poloxamer 407-induced hyperlipidemic and cholesterol-fed rats. *Biol Pharm Bull*. 2008 Jan;31(1):73-8.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA