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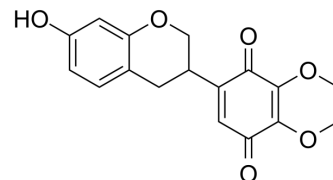
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Pendulone

Cat. No.:	HY-N7985
CAS No.:	69359-09-7
Molecular Formula:	C ₁₇ H ₁₆ O ₆
Molecular Weight:	316.31
Target:	Parasite; Bacterial
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Pendulone is a isoflavanquinone with good antiplasmodial activity with an IC ₅₀ of 7.0 μM. Pendulone also has antileishmanial, antibacterial and anticancer activity ^{[1][2]} .	
IC₅₀ & Target	Plasmodium	Leishmania
In Vitro	<p>Pendulone displays moderate antiproliferative activity against the A2780 human ovarian cancer cell line, with an IC₅₀ value 19.6 μM^[1].</p> <p>Pendulone displays an IC₅₀ value of 0.43 μg/mL, against <i>L. donovani</i> promastigotes. Pendulone also displays antibacterial activity against <i>Staphylococcus aureus</i> and methicillin-resistant <i>S. aureus</i> (each IC₅₀ of 1.44 μg/mL)^[2].</p> <p>Pendulone exhibits moderate anticancer activity against human cancer cell lines (SK-MEL, KB, BT-549 and SK-OV-3) with IC₅₀ values of 5.5 and 10.5 μg/mL. Pendulone also shows moderate cytotoxicities against monkey kidney fibroblasts (VERO) and pig kidney epithelial cells (LLC-PK11)^[2].</p> <p>Pendulone shows strong inhibition on the effect of the cell cycle induced by 12-O-tetradecanoyl-phorbol-13-acetate (TPA) in Raji cells^[3].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>	
In Vivo	<p>Pendulone shows potent anti-tumor-promoting activity for an in vivo two-stage carcinogenesis test of mouse skin using 7,12-dimethylbenz[a]-anthracene and TPA^[3].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>	

REFERENCES

- [1]. Qingxi Su, et al. Antiplasmodial Isoflavanes and Pterocarpanes from *Apoplanesia paniculata*. *Planta Med.* 2015 Aug;81(12-13):1128-32.
- [2]. Aziz A Rahman, et al. Antiparasitic and antimicrobial isoflavanquinones from *Abrus schimperii*. *Nat Prod Commun.* 2011 Nov;6(11):1645-50.
- [3]. T Konoshima, et al. Anti-tumor promoting activities of isoflavonoids from *Wistaria brachybotrys*. *Biol Pharm Bull.* 1997 Aug;20(8):865-8.

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

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