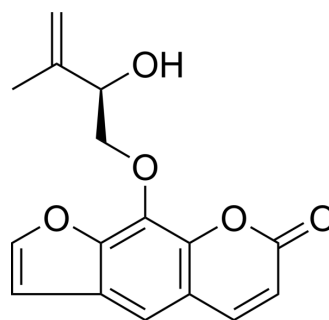


Isogosferol

Cat. No.:	HY-N3480
CAS No.:	53319-52-1
Molecular Formula:	C ₁₆ H ₁₄ O ₅
Molecular Weight:	286.28
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Isogosferol ((+)-Isogosferol; Isogosferol) is a potent anti-inflammatory agent. Isogosferol decreases LPS (HY-D1056)-stimulated NO and IL-1 β expression. Isogosferol decreases the LPS (HY-D1056)-stimulated expression of iNOS, COX-2, NF- κ B, and pERK1/2 ^[1] .																
In Vitro	<p>Isogosferol (100, 200 μM; 1+16 h) decreases LPS (HY-D1056)-stimulated NO expression in RAW 264.7 cells^[1].</p> <p>Isogosferol (0, 25, 50, 100, 200 μM; 1+16 h) decreases LPS-stimulated expression of iNOS, COX-2 protein in a dose-dependent manner^[1].</p> <p>Isogosferol (0, 25, 50, 100, 200 μM; 1+1 h) decreases the LPS-stimulated expression of NF-κB and pERK1/2 in a dose-dependent manner^[1].</p> <p>Isogosferol (50, 100, 200 μM; 1+16 h) decreases LPS-stimulated release of the pro-inflammatory cytokine, IL-1β^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Cell Viability Assay^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>RAW 264.7 cells</td> </tr> <tr> <td>Concentration:</td> <td>100, 200 μM (stimulated with LPS (1 μg/mL))</td> </tr> <tr> <td>Incubation Time:</td> <td>1+16</td> </tr> <tr> <td>Result:</td> <td>Remarkably down-regulated the LPS-stimulated NO expression with an IC₅₀ of 148 μM and shows no effect on cell viability.</td> </tr> </table> <p>Western Blot Analysis^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>0, 25, 50, 100, 200 μM</td> </tr> <tr> <td>Concentration:</td> <td>1+16</td> </tr> <tr> <td>Incubation Time:</td> <td>1+16</td> </tr> <tr> <td>Result:</td> <td>Decreased the expression of iNOS, COX-2 protein in a dose-dependent manner.</td> </tr> </table>	Cell Line:	RAW 264.7 cells	Concentration:	100, 200 μ M (stimulated with LPS (1 μ g/mL))	Incubation Time:	1+16	Result:	Remarkably down-regulated the LPS-stimulated NO expression with an IC ₅₀ of 148 μ M and shows no effect on cell viability.	Cell Line:	0, 25, 50, 100, 200 μ M	Concentration:	1+16	Incubation Time:	1+16	Result:	Decreased the expression of iNOS, COX-2 protein in a dose-dependent manner.
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REFERENCES

[1]. Song HY, et al. Anti-Inflammatory Activities of Isogosferol, a Furanocoumarin Isolated from Citrus junos Seed Shells through Bioactivity-Guided Fractionation. *Molecules*. 2019 Nov 12;24(22):4088.

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

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