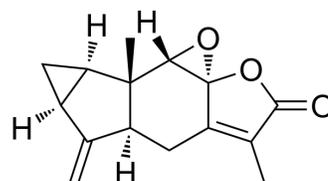


## Chloranthalactone B

<b>Cat. No.:</b>	HY-N10913
<b>CAS No.:</b>	66395-03-7
<b>Molecular Formula:</b>	C <sub>15</sub> H <sub>16</sub> O <sub>3</sub>
<b>Molecular Weight:</b>	244.29
<b>Target:</b>	AP-1; p38 MAPK; NO Synthase; TNF Receptor; COX; Interleukin Related
<b>Pathway:</b>	Immunology/Inflammation; MAPK/ERK Pathway; Apoptosis
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Chloranthalactone B, a lindenane-type sesquiterpenoid, is a nature product that could be isolated from Chinese medicinal herb <i>Sarcandra glabra</i> . Chloranthalactone B inhibits the production of inflammatory mediators by inhibiting the AP-1 and p38 MAPK pathways <sup>[1]</sup> .								
<b>In Vitro</b>	<p>Chloranthalactone B (6.25-50 μM; 30 min) has anti-inflammatory effects in LPS-stimulated RAW264.7 cells and inhibits NO production<sup>[1]</sup>.</p> <p>Chloranthalactone B (25 and 50 μM; 30 min) inhibits inducible nitric oxide synthase (iNOS), cyclooxygenase-2 (COX-2), tumor necrosis factor α (TNF-α), and interleukin-1β (IL-1β) expression in LPS-treated RAW264.7 cells<sup>[1]</sup>.</p> <p>Chloranthalactone B (25 and 50 μM; RAW264.7 cells) inhibits LPS-induced AP-1 activation in a concentration-dependent manner<sup>[1]</sup>.</p> <p>Chloranthalactone B (25 and 50 μM; 30 min; RAW264.7 cells) inhibits the phosphorylation of ERK, JNK, and p38 in RAW264.7 cells<sup>[1]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Western Blot Analysis<sup>[1]</sup></p> <table border="1"> <tr> <td>Cell Line:</td> <td>RAW264.7 cells</td> </tr> <tr> <td>Concentration:</td> <td>25 and 50 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>30 min</td> </tr> <tr> <td>Result:</td> <td>Inhibited the expression of iNOS, TNF-α, COX-2, and IL-1β in a dose-dependent manner. Inhibited the phosphorylation of ERK, JNK, and p38 in RAW264.7 cells.</td> </tr> </table>	Cell Line:	RAW264.7 cells	Concentration:	25 and 50 μM	Incubation Time:	30 min	Result:	Inhibited the expression of iNOS, TNF-α, COX-2, and IL-1β in a dose-dependent manner. Inhibited the phosphorylation of ERK, JNK, and p38 in RAW264.7 cells.
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Concentration:	25 and 50 μM								
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Result:	Inhibited the expression of iNOS, TNF-α, COX-2, and IL-1β in a dose-dependent manner. Inhibited the phosphorylation of ERK, JNK, and p38 in RAW264.7 cells.								

### REFERENCES

[1]. Li X, et al. Anti-Inflammatory Effects of Chloranthalactone B in LPS-Stimulated RAW264.7 Cells. *Int J Mol Sci*. 2016 Nov 22;17(11):1938.

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**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](mailto:tech@MedChemExpress.com)

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