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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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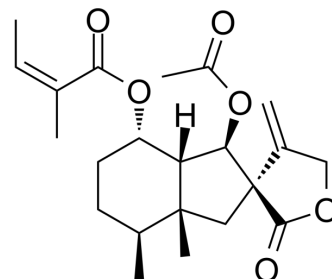
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Bakkenolide B

Cat. No.:	HY-N7292
CAS No.:	18455-98-6
Molecular Formula:	C ₂₂ H ₃₀ O ₆
Molecular Weight:	390.47
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Bakkenolide B is isolated from petasites japonicas leaves and has anti-allergic and anti-inflammatory effects. Bakkenolide B can be used for the study of asthma ^[1] .								
In Vitro	<p>Bakkenolide B (0-100 µg/ml; pretreatment 30 mins) inhibits antigen-induced β-hexosamidase release from RBL2H3 mast cells in a concentration-dependent manner^[1].</p> <p>Bakkenolide B (0-10 µg/ml; 1 h later stimulated with LPS) strongly inhibits the gene inductions of inducible nitric oxide synthase and cyclooxygenase-2 in a concentration-dependent manner in mouse peritoneal macrophages^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Western Blot Analysis^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>Mouse peritoneal macrophages</td> </tr> <tr> <td>Concentration:</td> <td>0 µg/ml; 1 µg/ml; 3 µg/ml; 5 µg/ml; 10 µg/ml</td> </tr> <tr> <td>Incubation Time:</td> <td>1 h later stimulated with LPS</td> </tr> <tr> <td>Result:</td> <td>Decreased iNOS and cox-2 protein expression.</td> </tr> </table>	Cell Line:	Mouse peritoneal macrophages	Concentration:	0 µg/ml; 1 µg/ml; 3 µg/ml; 5 µg/ml; 10 µg/ml	Incubation Time:	1 h later stimulated with LPS	Result:	Decreased iNOS and cox-2 protein expression.
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Incubation Time:	1 h later stimulated with LPS								
Result:	Decreased iNOS and cox-2 protein expression.								
In Vivo	<p>Bakkenolide B (intraperitoneal injection; 1 mg/ml; 1 h before ovalbumin nebulization on days 28, 29, and 30) strongly inhibits the accumulation of eosinophils, macrophages, and lymphocytes to bronchoalveolar lavage fluid (BALF) in ovalbumin-induced asthma mice^[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>Ovalbumin-induced asthma mice^[1]</td> </tr> <tr> <td>Dosage:</td> <td>1 mg/ml</td> </tr> <tr> <td>Administration:</td> <td>Intraperitoneal injection; 1 h before ovalbumin nebulization on days 28, 29, and 30</td> </tr> <tr> <td>Result:</td> <td>Exhibited anti-allergic effects in mice.</td> </tr> </table>	Animal Model:	Ovalbumin-induced asthma mice ^[1]	Dosage:	1 mg/ml	Administration:	Intraperitoneal injection; 1 h before ovalbumin nebulization on days 28, 29, and 30	Result:	Exhibited anti-allergic effects in mice.
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Result:	Exhibited anti-allergic effects in mice.								

REFERENCES

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

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