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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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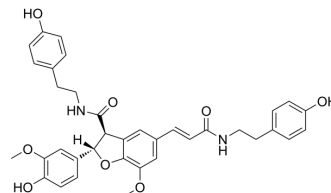
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Grossamide

Cat. No.:	HY-N3979
CAS No.:	80510-06-1
Molecular Formula:	C ₃₆ H ₃₆ N ₂ O ₈
Molecular Weight:	624.68
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Grossamide is a natural product that can be isolated from fructus cannabis, the dried fruit of Cannabis sativa L.. Grossamide has anti-neuroinflammatory effects ^[1] .																						
In Vitro	<p>Grossamide downregulates LPS-mediated production of inflammatory molecules^[1]. Grossamide (0-20 μM, 1 h) inhibits the mRNA levels of TNF-α and IL-6 in a dose-dependent manner, inhibits LPS-induced NF-κB activation, and inhibits LPS-induced TLR4 and MyD88 expression without cytotoxicity^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only. RT-PCR^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>BV-2 microglia cell</td> </tr> <tr> <td>Concentration:</td> <td>0, 10, 15, and 20 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>1 h and co-cultured with LPS (100 ng/mL) for another 6 h</td> </tr> <tr> <td>Result:</td> <td>Inhibited the mRNA levels of TNF-α and IL-6 in a dose-dependent manner.</td> </tr> </table> <p>Western Blot Analysis^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>BV-2 microglia cell</td> </tr> <tr> <td>Concentration:</td> <td>0, 10, 15, and 20 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>1 h followed by LPS (100 ng/mL) stimulation for 1 h or 24 h</td> </tr> <tr> <td>Result:</td> <td>Inhibited LPS-induced phosphorylation of IκBα and significantly reduced phosphorylation of NF-κB p65 levels. Dose-dependently decreased the expression of TLR4 and MyD88.</td> </tr> </table> <p>Cell Viability Assay^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>BV-2 microglia cell</td> </tr> <tr> <td>Concentration:</td> <td>0, 10, 15, and 20 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>1 h and co-cultured in the absence or presence of 100 ng/ mL LPS for 24 h</td> </tr> </table>	Cell Line:	BV-2 microglia cell	Concentration:	0, 10, 15, and 20 μM	Incubation Time:	1 h and co-cultured with LPS (100 ng/mL) for another 6 h	Result:	Inhibited the mRNA levels of TNF-α and IL-6 in a dose-dependent manner.	Cell Line:	BV-2 microglia cell	Concentration:	0, 10, 15, and 20 μM	Incubation Time:	1 h followed by LPS (100 ng/mL) stimulation for 1 h or 24 h	Result:	Inhibited LPS-induced phosphorylation of IκBα and significantly reduced phosphorylation of NF-κB p65 levels. Dose-dependently decreased the expression of TLR4 and MyD88.	Cell Line:	BV-2 microglia cell	Concentration:	0, 10, 15, and 20 μM	Incubation Time:	1 h and co-cultured in the absence or presence of 100 ng/ mL LPS for 24 h
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Result:	Had no cytotoxicity.
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REFERENCES

[1]. Luo Q, et al. Anti-neuroinflammatory effects of grossamide from hemp seed via suppression of TLR-4-mediated NF- κ B signaling pathways in lipopolysaccharide-stimulated BV2 microglia cells. Mol Cell Biochem. 2017 Apr;428(1-2):129-137.

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

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