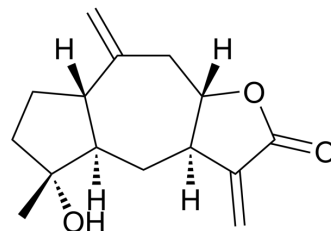


## Inuviscolide

Cat. No.:	HY-N11110
CAS No.:	63109-30-8
Molecular Formula:	C <sub>15</sub> H <sub>20</sub> O <sub>3</sub>
Molecular Weight:	248.32
Target:	Apoptosis
Pathway:	Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Inuviscolide is an apoptosis inducer. Inuviscolide can induce of G <sub>2</sub> /M arrest in human melanoma cell lines. Inuviscolide exhibits antineoplastic and anti-inflammatory activities <sup>[1][2][3]</sup> .								
<b>In Vitro</b>	<p>Inuviscolide (9-72 μM; 24 h) inhibits the proliferation of SK-28, 624 and 1363 melanoma cells, with IC<sub>50</sub>s of 37, 41.1, and 39 μM, respectively<sup>[2]</sup>.</p> <p>Inuviscolide (36-54 μM; 4-24 h) leads to a dose-dependent accumulation of SK-28 cells at the G<sub>2</sub>/M phase<sup>[2]</sup>.</p> <p>Inuviscolide (72 μM; 48 h) results in ~70% of SK-28 cells exhibiting markers of early apoptosis<sup>[2]</sup>.</p> <p>Inuviscolide inhibits the release of human leukocyte elastase by 51% at 100 μM<sup>[1]</sup>.</p> <p>Inuviscolide inhibits secretory PLA<sub>2</sub> (sPLA<sub>2</sub>) from bee venom, with an IC<sub>50</sub> of 80.5 μM<sup>[1]</sup>.</p> <p>Inuviscolide inhibits COX-1 at 50 μM (40%), while it is inactive on the inducible form, COX-2<sup>[1]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Cell Proliferation Assay<sup>[2]</sup></p> <table border="1"> <tr> <td>Cell Line:</td> <td>SK-28, 624 and 1363 melanoma cells</td> </tr> <tr> <td>Concentration:</td> <td>9-72 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>24 hours</td> </tr> <tr> <td>Result:</td> <td>Resulted in a dose-dependent inhibition of cellular proliferation, with no significant changes between the three cell lines.</td> </tr> </table>	Cell Line:	SK-28, 624 and 1363 melanoma cells	Concentration:	9-72 μM	Incubation Time:	24 hours	Result:	Resulted in a dose-dependent inhibition of cellular proliferation, with no significant changes between the three cell lines.
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Concentration:	9-72 μM								
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Result:	Resulted in a dose-dependent inhibition of cellular proliferation, with no significant changes between the three cell lines.								
<b>In Vivo</b>	<p>Inuviscolide reduces the skin leukocyte infiltration in a murine model of dermatitis induced by repeated application of 12-O-tetradecanoylphorbol 13-acetate<sup>[1]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>								

### REFERENCES

- [1]. Máñez S, et, al. Inhibition of pro-inflammatory enzymes by inuviscolide, a sesquiterpene lactone from *Inula viscosa*. *Fitoterapia*. 2007 Jun;78(4):329-31.
- [2]. Rozenblat S, et, al. Induction of G<sub>2</sub>/M arrest and apoptosis by sesquiterpene lactones in human melanoma cell lines. *Biochem Pharmacol*. 2008 Jan 15;75(2):369-82.

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[3]. Hernández V, et, al. A mechanistic approach to the in vivo anti-inflammatory activity of sesquiterpenoid compounds isolated from *Inula viscosa*. *Planta Med.* 2001 Nov;67(8):726-31.

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

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