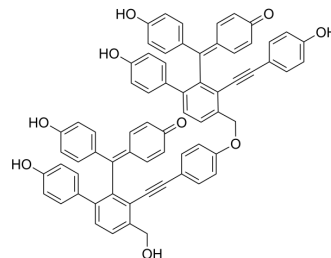


## Diselaginellin B

<b>Cat. No.:</b>	HY-N12601
<b>CAS No.:</b>	1835299-12-1
<b>Molecular Formula:</b>	C <sub>68</sub> H <sub>46</sub> O <sub>9</sub>
<b>Molecular Weight:</b>	1007.09
<b>Target:</b>	Apoptosis
<b>Pathway:</b>	Apoptosis
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Diselaginellin B (compound 2) is a natural product isolated from Selaginella Pulvinata, which exhibits anti-proliferative, apoptosis-inducing and antimetastatic activities against human carcinoma hepatocellular cells <sup>[1]</sup> .																
<b>In Vitro</b>	<p>Diselaginellin B (2.5-10 μM) exhibits cytotoxic activity against SMMC-7721 cells, with an IC<sub>50</sub> of 9.0 μM, and induces apoptosis in a concentration-dependent manner, by upregulating levels of DLD and inhibiting expressions of COX-1/2 and NNMT<sup>[1]</sup>. Diselaginellin B (0.5-2 μM) downregulates the TSPAN8 and MAGP2, inhibits the angiogenesis and reduces the cancer cells migration and invasion in SMMC-7721<sup>[1]</sup>. Diselaginellin B (2.5-5 μM) arrests the cells at G1 phase<sup>[1]</sup>. MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Cell Invasion Assay<sup>[1]</sup></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Cell Line:</td> <td>SMMC-7721</td> </tr> <tr> <td>Concentration:</td> <td>0.5-2 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>48 h</td> </tr> <tr> <td>Result:</td> <td>Reduced the cancer cells migration and invasion in a dose-dependent manner.</td> </tr> </table> <p>Real Time qPCR<sup>[1]</sup></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Cell Line:</td> <td>SMMC-7721</td> </tr> <tr> <td>Concentration:</td> <td>8 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>3 days</td> </tr> <tr> <td>Result:</td> <td>Upregulated DLD, decreased expressions of COX-1/2, NNMT, TSPAN8 and MAGP2</td> </tr> </table>	Cell Line:	SMMC-7721	Concentration:	0.5-2 μM	Incubation Time:	48 h	Result:	Reduced the cancer cells migration and invasion in a dose-dependent manner.	Cell Line:	SMMC-7721	Concentration:	8 μM	Incubation Time:	3 days	Result:	Upregulated DLD, decreased expressions of COX-1/2, NNMT, TSPAN8 and MAGP2
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### REFERENCES

[1]. Cao Y, et al., Diselaginellin B, an Unusual Dimeric Molecule from Selaginella pulvinata, Inhibited Metastasis and Induced Apoptosis of SMMC-7721 Human Hepatocellular Carcinoma Cells. J Nat Prod. 2017 Dec 22;80(12):3151-3158.

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

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