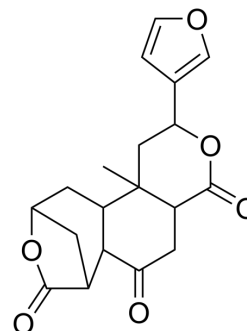


Diosbulbin D

Cat. No.:	HY-N3765
CAS No.:	66756-57-8
Molecular Formula:	C ₁₉ H ₂₀ O ₆
Molecular Weight:	344.36
Target:	Apoptosis
Pathway:	Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Diosbulbin D is a potential hepatotoxic compound that can be isolated from <i>Dioscorea bulbifera</i> L.. Diosbulbin D induces apoptosis in L-02 cells ^[1] .																
In Vitro	<p>Diosbulbin D (10-80 μM; 12-72 h) can induce cytotoxicity in human normal liver L-02 cells^[1].</p> <p>Diosbulbin D (40 μM; 24 h) induces morphological changes in L-02 cells^[1].</p> <p>Diosbulbin D (20-80 μM; 12-48 h) induces L-02 cells apoptosis in a time- and concentration-dependent manner^[1].</p> <p>Diosbulbin D (20-80 μM; 24 h) induces activation of caspase 3 in L-02 cells^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Cell Viability Assay^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>L-02 cells</td> </tr> <tr> <td>Concentration:</td> <td>10, 20, 40 and 80 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>12, 24, 48 and 72 h</td> </tr> <tr> <td>Result:</td> <td>Decreased L-02 cells viability in a concentration- and time-dependent manner.</td> </tr> </table> <p>Apoptosis Analysis^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>L-02 cells</td> </tr> <tr> <td>Concentration:</td> <td>20, 40 and 80 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>12, 24 and 48 h</td> </tr> <tr> <td>Result:</td> <td>Induced apoptosis in a time- and concentration-dependent manner.</td> </tr> </table>	Cell Line:	L-02 cells	Concentration:	10, 20, 40 and 80 μM	Incubation Time:	12, 24, 48 and 72 h	Result:	Decreased L-02 cells viability in a concentration- and time-dependent manner.	Cell Line:	L-02 cells	Concentration:	20, 40 and 80 μM	Incubation Time:	12, 24 and 48 h	Result:	Induced apoptosis in a time- and concentration-dependent manner.
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REFERENCES

[1]. Ma M, et al. The furano norclerodane diterpenoid disobulbin-D induces apoptosis in normal human liver L-02 cells. *Exp Toxicol Pathol*. 2012 Sep;64(6):611-8.

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

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