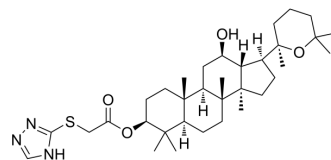


Apoptosis inducer 9

Cat. No.:	HY-147897
CAS No.:	2551067-10-6
Molecular Formula:	C ₃₄ H ₅₅ N ₃ O ₄ S
Molecular Weight:	601.88
Target:	Apoptosis
Pathway:	Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Apoptosis inducer 9 induces apoptosis with IC ₅₀ value of 4.21 μM. Apoptosis inducer 9 induces apoptosis through the mitochondrial pathway and enhance the expression of Cl-caspase-3, Cl-caspase-9 and Cl-PARP. Apoptosis inducer 9 can be used the potential to develop new anti-proliferative agents ^[1] .																
In Vitro	<p>Apoptosis inducer 9 (Compound A1) (5-10 μM, 12 hours) induces apoptosis in HepG-2 cells in a concentration-dependent manner^[1].</p> <p>Apoptosis inducer 9 (Compound A1) (0-20 μM, 24 hours) triggers Cl-caspase-3, Cl-caspase-9 and Cl-PARP protein expression in HepG-2, thereby inducing apoptosis^[1].</p> <p>Apoptosis inducer 9 (Compound A1) (0-20 μM, 24 hours) induces apoptosis by triggering the mitochondrial apoptosis pathway^[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>HepG-2 cells</td> </tr> <tr> <td>Concentration:</td> <td>5 and 10 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>12 hours</td> </tr> <tr> <td>Result:</td> <td>Apoptotic bodies appeared shrunken, nuclei shrunken and cells fragmented. The apoptosis rates at concentrations of 5 μM and 10 μM were 10.2% and 42.7%, respectively.</td> </tr> </table> <p>Western Blot Analysis^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>HepG-2 cells</td> </tr> <tr> <td>Concentration:</td> <td>0, 5, 10 and 20 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>24 hours</td> </tr> <tr> <td>Result:</td> <td>Triggered the caspase cascade in HepG-2 and the corresponding protein expression gradually increased.</td> </tr> </table> <p>Western Blot Analysis^[1]</p>	Cell Line:	HepG-2 cells	Concentration:	5 and 10 μM	Incubation Time:	12 hours	Result:	Apoptotic bodies appeared shrunken, nuclei shrunken and cells fragmented. The apoptosis rates at concentrations of 5 μM and 10 μM were 10.2% and 42.7%, respectively.	Cell Line:	HepG-2 cells	Concentration:	0, 5, 10 and 20 μM	Incubation Time:	24 hours	Result:	Triggered the caspase cascade in HepG-2 and the corresponding protein expression gradually increased.
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Cell Line:	HepG-2 cells
Concentration:	0, 5, 10 and 20 μ M
Incubation Time:	24 hours
Result:	Induced up-regulation of the expression of Bcl-2, Bax and p53 proteins, and increased the ratio of Bax/Bcl-2.

REFERENCES

[1]. Xiao S, et al. Novel panaxadiol triazole derivatives induce apoptosis in HepG-2 cells through the mitochondrial pathway. *Bioorg Chem.* 2020 Sep;102:104078.

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

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