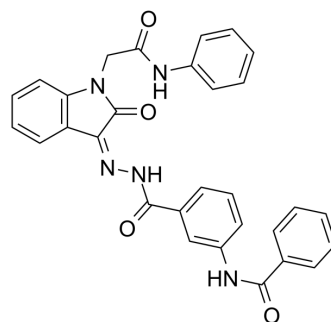


AG6033

Cat. No.:	HY-143435
CAS No.:	329706-62-9
Molecular Formula:	C ₃₀ H ₂₃ N ₅ O ₄
Molecular Weight:	517.53
Target:	Apoptosis
Pathway:	Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	AG6033 is a potential novel CRBN modulator. AG6033 suppresses various tumor cells by modulating the interactions between CRBN and various antitumor target proteins. AG6033 can cause GSPT1 and IKZF1 degradation. AG6033 induces CRBN-dependent cytotoxic effect ^[1] .																
IC₅₀ & Target	CRBN																
In Vitro	<p>AG6033 (0.064-40 μM, 4 h) has potent inhibition ability against A549^[1].</p> <p>AG6033 (1-10 μM, 24 h) significantly promotes apoptosis of A549 cells in a dose-dependent manner^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Cell Proliferation Assay</p> <table border="1"> <tr> <td>Cell Line:</td> <td>A549 cells^[1]</td> </tr> <tr> <td>Concentration:</td> <td>0.064 μM, 0.32 μM, 1.6 μM, 8 μM, and 40 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>4 h</td> </tr> <tr> <td>Result:</td> <td>Exhibited potent inhibitory ability against A549, with an IC₅₀ of 0.853 μM.</td> </tr> </table> <p>Apoptosis Analysis</p> <table border="1"> <tr> <td>Cell Line:</td> <td>A549 cells^[1]</td> </tr> <tr> <td>Concentration:</td> <td>1 μM, 5 μM, 10 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>24 h</td> </tr> <tr> <td>Result:</td> <td>Significantly promoted apoptosis of A549 cells in a dose-dependent manner, and the proportion of late apoptotic cells were 5.39%, 22.0%, and 29.1%, respectively.</td> </tr> </table>	Cell Line:	A549 cells ^[1]	Concentration:	0.064 μM, 0.32 μM, 1.6 μM, 8 μM, and 40 μM	Incubation Time:	4 h	Result:	Exhibited potent inhibitory ability against A549, with an IC ₅₀ of 0.853 μM.	Cell Line:	A549 cells ^[1]	Concentration:	1 μM, 5 μM, 10 μM	Incubation Time:	24 h	Result:	Significantly promoted apoptosis of A549 cells in a dose-dependent manner, and the proportion of late apoptotic cells were 5.39%, 22.0%, and 29.1%, respectively.
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REFERENCES

[1]. Xiong F, Kong L, Chen L, et al. Discovery of potential novel CRBN modulators by virtual screening and bioassay. *Eur J Med Chem.* 2022 Apr 5;236:114355.

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

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