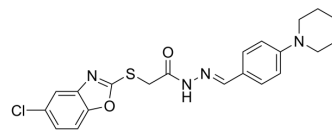


## AKT-IN-17

Cat. No.:	HY-149841
Molecular Formula:	C <sub>21</sub> H <sub>21</sub> ClN <sub>4</sub> O <sub>2</sub> S
Molecular Weight:	428.94
Target:	Akt
Pathway:	PI3K/Akt/mTOR
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	AKT-IN-17 is a Akt inhibitor. AKT-IN-17 inhibits Akt in A549 cells, leading to Apoptosis. AKT-IN-17 can be used in non-small cell lung cancer study <sup>[1]</sup> .								
<b>IC<sub>50</sub> &amp; Target</b>	Akt 105.88 μM (IC <sub>50</sub> )								
<b>In Vitro</b>	<p>AKT-IN-17 exerts cytotoxic activity against A549 cells without influencing normal (L929) cells at their effective doses, with an IC<sub>50</sub> 176.32 μM<sup>[1]</sup>.</p> <p>AKT-IN-17 (44.06, 88.12, and 176.23 μM, 24 h) inhibited Akt in A549 cells with an IC<sub>50</sub> of 105.88 μM<sup>[1]</sup>.</p> <p>AKT-IN-17 (176.23 μM, 24 h) induces early apoptosis of 3.26% and late apoptosis of 1.76% in A549 cells<sup>[1]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Apoptosis Analysis<sup>[1]</sup></p> <table border="1"> <tr> <td>Cell Line:</td> <td>A549</td> </tr> <tr> <td>Concentration:</td> <td>176.23 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>24 h</td> </tr> <tr> <td>Result:</td> <td>Induced early apoptosis of 3.26% and late apoptosis of 1.76% in A549 cells</td> </tr> </table>	Cell Line:	A549	Concentration:	176.23 μM	Incubation Time:	24 h	Result:	Induced early apoptosis of 3.26% and late apoptosis of 1.76% in A549 cells
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Concentration:	176.23 μM								
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Result:	Induced early apoptosis of 3.26% and late apoptosis of 1.76% in A549 cells								

### REFERENCES

[1]. Erdönmez B, et al. Design, Synthesis, and Evaluation of a New Series of Hydrazones as Small-Molecule Akt Inhibitors for NSCLC Therapy. ACS Omega. 2023 May 24;8(22):20056-20065.

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

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