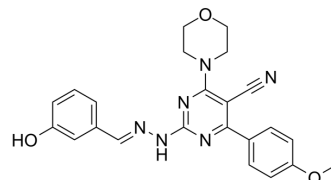


PI3K-IN-34

Cat. No.:	HY-147899
CAS No.:	2458163-94-3
Molecular Formula:	C ₂₃ H ₂₂ N ₆ O ₃
Molecular Weight:	430.46
Target:	PI3K; Apoptosis
Pathway:	PI3K/Akt/mTOR; Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	PI3K-IN-34 (Compound 6g) is a highly selective PI3K inhibitor with IC ₅₀ values of 11.73, 6.09 and 11.18 μM for PI3K-α, PI3K-β and PI3K-δ, respectively. PI3K-IN-34 arrests cell cycle at G2/M phase and induces apoptosis. PI3K-IN-34 can be used in leukemia research ^[1] .										
IC₅₀ & Target	PI3Kα 8.43 μM (IC ₅₀)	PI3Kβ 15.84 μM (IC ₅₀)	PI3Kδ 30.62 μM (IC ₅₀)								
In Vitro	<p>PI3K-IN-34 (Compound 6g) (10 μM, 48 hours) possess potent antiproliferative activity can inhibit proliferation of Leukemia SR cell lines in vitro^[1].</p> <p>PI3K-IN-34 (Compound 6g) induces cell cycle arrest toward the G2-M phase (45.75%) and leads to DNA synthesis and apoptosis^[1].</p> <p>PI3K-IN-34 (Compound 6g) (10 μM, 48 hours) results in apoptotic with 22.83% of cells in the early and latest age^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Cell Cytotoxicity Assay^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>Leukemia SR cell lines.</td> </tr> <tr> <td>Concentration:</td> <td>10 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>48 hours</td> </tr> <tr> <td>Result:</td> <td>Antiproliferative activity with values of 4.37 μM.</td> </tr> </table>			Cell Line:	Leukemia SR cell lines.	Concentration:	10 μM	Incubation Time:	48 hours	Result:	Antiproliferative activity with values of 4.37 μM.
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Concentration:	10 μM										
Incubation Time:	48 hours										
Result:	Antiproliferative activity with values of 4.37 μM.										

REFERENCES

[1]. Helwa AA, et al. Novel antiproliferative agents bearing morpholinopyrimidine scaffold as PI3K inhibitors and apoptosis inducers; design, synthesis and molecular docking. *Bioorg Chem.* 2020 Sep;102:104051.

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

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