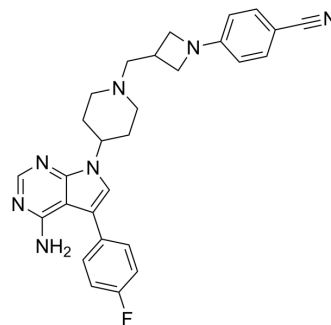


Menin-MLL inhibitor-25

Cat. No.:	HY-157814
Molecular Formula:	C ₂₈ H ₂₈ FN ₇
Molecular Weight:	481.57
Target:	Apoptosis; Epigenetic Reader Domain
Pathway:	Apoptosis; Epigenetics
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Menin-MLL inhibitor-25 (compound A6) is a potent Menin-MLL interaction inhibitor with an IC ₅₀ value of 0.38 μM. Menin-MLL inhibitor-25 shows anti-proliferative activity. Menin-MLL inhibitor-25 induces apoptosis and cell cycle arrest at G ₀ /G ₁ phase. Menin-MLL inhibitor-25 reverses the differentiation arrest ^[1] .																		
In Vitro	<p>Menin-MLL inhibitor-25 (compound A6) (0-10 μM) shows anti-proliferation activity with IC₅₀s of 1.07, >10, 6.7 μM for MV4-11, HL-60, SU-DHL-6 cells, respectively.^[1]</p> <p>Menin-MLL inhibitor-25 (0.1, 1, 10 μM; 24 h) induces apoptosis and cell cycle arrest at G₀/G₁ phase in MV4-11 cells^[1].</p> <p>Menin-MLL inhibitor-25 (0.1, 0.5 μM; 24, 48 h) decreases the HOXA9 and MEIS1 gene expression in a time and dose dependent manner^[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>MV4-11, HL-60, SU-DHL-6 cells</td> </tr> <tr> <td>Concentration:</td> <td>0-10 μM</td> </tr> <tr> <td>Incubation Time:</td> <td></td> </tr> <tr> <td>Result:</td> <td>Showed anti-proliferation activity with IC₅₀s of 1.07, >10, 6.7 μM for MV4-11, HL-60, SU-DHL-6 cells, respectively.</td> </tr> </table> <p>Apoptosis Analysis^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>MV4-11 cells</td> </tr> <tr> <td>Concentration:</td> <td>0.1, 1, 10 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>24 h</td> </tr> <tr> <td>Result:</td> <td>Induced apoptosis with the apoptosis rates of 6.09 %, 8.86 % and 43.08 % at 0.1, 1 and 10 μM.</td> </tr> </table> <p>Cell Cycle Analysis^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>MV4-11 cells</td> </tr> </table>	Cell Line:	MV4-11, HL-60, SU-DHL-6 cells	Concentration:	0-10 μM	Incubation Time:		Result:	Showed anti-proliferation activity with IC ₅₀ s of 1.07, >10, 6.7 μM for MV4-11, HL-60, SU-DHL-6 cells, respectively.	Cell Line:	MV4-11 cells	Concentration:	0.1, 1, 10 μM	Incubation Time:	24 h	Result:	Induced apoptosis with the apoptosis rates of 6.09 %, 8.86 % and 43.08 % at 0.1, 1 and 10 μM.	Cell Line:	MV4-11 cells
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Cell Line:	MV4-11 cells																		

Concentration:	0.01, 0.1, 1 μ M
Incubation Time:	24 h
Result:	Induced cell cycle arrest at G0/G1 phase in a dose-dependent manner.

RT-PCR^[1]

Cell Line:	MV4-11 cells
Concentration:	0.1, 0.5 μ M
Incubation Time:	24, 48 h
Result:	Decreasesd the gene expression of HOXA9 and MEIS1 in a time and dose dependent manner.

REFERENCES

[1]. Bai H, et al. Discovery of novel pyrrolo[2,3-d]pyrimidines as potent menin-mixed lineage leukemia interaction inhibitors. Eur J Med Chem. 2024 Feb 8;268:116226.

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

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