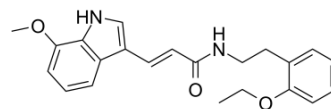


Jl051

Cat. No.:	HY-117113
CAS No.:	2234281-75-3
Molecular Formula:	C ₂₂ H ₂₄ N ₂ O ₃
Molecular Weight:	364.44
Target:	Notch
Pathway:	Stem Cell/Wnt
Storage:	Please store the product under the recommended conditions in the COA.



BIOLOGICAL ACTIVITY

Description	Jl051 is a stabilizer for the Hes1-PHB2 interaction, interacts with a cancer-associated protein chaperone prohibitin 2 (PHB2), induces cell-cycle arrest by inhibiting the Notch downstream effector gene Hes1. Anti-cancer activity ^[1] .								
In Vitro	<p>Jl051 causes G2/M cell-cycle arrest^[1].</p> <p>Jl051 (0.1-10 μM, 24 hours) significantly inhibits cell proliferation of HEK293 cells, with an EC₅₀ of 0.3 μM^[1].</p> <p>Cell Proliferation Assay^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>HEK293 cells</td> </tr> <tr> <td>Concentration:</td> <td>0.1-10 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>24 hours</td> </tr> <tr> <td>Result:</td> <td>Dose-dependently inhibits the proliferation of HEK293 cells at low concentrations.</td> </tr> </table>	Cell Line:	HEK293 cells	Concentration:	0.1-10 μM	Incubation Time:	24 hours	Result:	Dose-dependently inhibits the proliferation of HEK293 cells at low concentrations.
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Result:	Dose-dependently inhibits the proliferation of HEK293 cells at low concentrations.								

REFERENCES

[1]. Perron A, et al. Small-molecule screening yields a compound that inhibits the cancer-associated transcription factor Hes1 via the PHB2 chaperone. *J Biol Chem.* 2018 May 25;293(21):8285-8294.

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

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