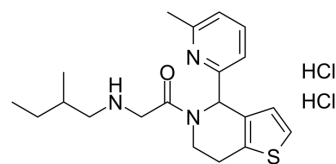


## RUSKI-201 dihydrochloride

<b>Cat. No.:</b>	HY-123781A
<b>CAS No.:</b>	2320262-09-5
<b>Molecular Formula:</b>	C <sub>20</sub> H <sub>29</sub> Cl <sub>2</sub> N <sub>3</sub> OS
<b>Molecular Weight:</b>	430.43
<b>Target:</b>	Hedgehog
<b>Pathway:</b>	Stem Cell/Wnt
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	RUSKI-201 dihydrochloride is a potent and specific Hedgehog acyltransferase (Hhat) inhibitor with an IC <sub>50</sub> of 0.20 μM. RUSKI-201 dihydrochloride is able to block Hh signaling from Shh overexpressing cells and inhibits Hh palmitoylation. RUSKI-201 dihydrochloride is potential Hhat chemical probe in cells and can used in studies of Hhat catalytic function <sup>[1]</sup> .								
<b>In Vitro</b>	<p>RUSKI-201 (0.5-25 μM; 48 hours) has no effect on cell viability at concentrations &gt;25 μM in Shh-Light2 cells derived from NIH3T3 cells stably transfected with a Gli-responsive firefly luciferase HEK-293 cells stably overexpressing Shh<sup>[1]</sup>.</p> <p>RUSKI-201 inhibits signaling in H520, Panc-1, and MCF-7 coculture with Shh-Light2 cells (IC<sub>50</sub>=4.8±0.60 μM, 7.8±1.3 μM, and 8.5±0.65 μM, respectively)<sup>[1]</sup>RUSKI-201 (0.01-10 μM; 24 hours) induces a selective inhibition of Shh palmitoylation and does not affect global palmitoylation levels in HEK-293 Shh<sup>+</sup> cells treated with RUSKI-201 followed by YnPal and functionalized with AzTB<sup>[1]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Western Blot Analysis<sup>[1]</sup></p> <table border="1"> <tr> <td>Cell Line:</td> <td>HEK-293 Shh<sup>+</sup> cells</td> </tr> <tr> <td>Concentration:</td> <td>0.01 μM, 0.05 μM, 0.1 μM, 0.5 μM, 1 μM, 5 μM, 10 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>24 hours</td> </tr> <tr> <td>Result:</td> <td>Decreased YnPal-Shh expression without α-Shh change; Capable of blocking Hh signaling from Shh overexpressing cells.</td> </tr> </table>	Cell Line:	HEK-293 Shh <sup>+</sup> cells	Concentration:	0.01 μM, 0.05 μM, 0.1 μM, 0.5 μM, 1 μM, 5 μM, 10 μM	Incubation Time:	24 hours	Result:	Decreased YnPal-Shh expression without α-Shh change; Capable of blocking Hh signaling from Shh overexpressing cells.
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### REFERENCES

[1]. Ursula R Rodgers, et al. Characterization of Hedgehog Acyltransferase Inhibitors Identifies a Small Molecule Probe for Hedgehog Signaling by Cancer Cells. ACS Chem Biol. 2016 Dec 16;11(12):3256-3262.

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

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