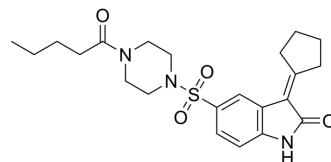


## BTK-IN-34

Cat. No.:	HY-162257
CAS No.:	3016419-52-3
Molecular Formula:	C <sub>22</sub> H <sub>29</sub> N <sub>3</sub> O <sub>4</sub> S
Molecular Weight:	431.55
Target:	Btk
Pathway:	Protein Tyrosine Kinase/RTK
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	BTK-IN-34 (compound 9h) is a selective BTK inhibitor. BTK-IN-34 shows antiproliferative activity in RAMOS cells through selective inhibition of pBTK (Tyr223) without affecting Lyn and Syk, upstream proteins in the BCR signaling pathway <sup>[1]</sup> .									
<b>In Vitro</b>	<p>BTK-IN-34 (compound 9h; 1-50 μM; 24 hours) decreases the pBTK, pERK 1/2 (Thr202/Tyr204), and p-p38 (Thr180/Tyr182) levels in RAMOS cells<sup>[1]</sup>.</p> <p>BTK-IN-34 (compound 9h) displays selective cytotoxicity against BTK-high RAMOS cells with an IC<sub>50</sub> of 2.75 μM. 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>RAMOS cells</td> </tr> <tr> <td>Concentration:</td> <td>1 μM, 10 μM, 50 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>24 hours</td> </tr> <tr> <td>Result:</td> <td>Decreased pBTK (Tyr223) levels.</td> </tr> </table>		Cell Line:	RAMOS cells	Concentration:	1 μM, 10 μM, 50 μM	Incubation Time:	24 hours	Result:	Decreased pBTK (Tyr223) levels.
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### REFERENCES

[1]. Vani Madhuri Velavalapalli, et al. Novel 5-Substituted Oxindole Derivatives as Bruton's Tyrosine Kinase Inhibitors: Design, Synthesis, Docking, Molecular Dynamics Simulation, and Biological Evaluation. ACS Omega 2024, 9, 7, 8067-8081.

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

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