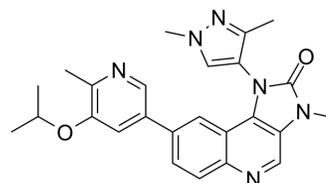


## PI3K-IN-37

Cat. No.:	HY-147284
CAS No.:	1257547-40-2
Molecular Formula:	C <sub>25</sub> H <sub>26</sub> N <sub>6</sub> O <sub>2</sub>
Molecular Weight:	442.51
Target:	PI3K; mTOR
Pathway:	PI3K/Akt/mTOR
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	PI3K-IN-37 (Example 84.1) is a PI3K $\alpha/\beta/\delta$ inhibitor with IC <sub>50</sub> s of 6, 8, 4 nM, respectively. PI3K-IN-37 can also inhibit mTOR (IC <sub>50</sub> =4 nM) <sup>[1]</sup> .																			
<b>IC<sub>50</sub> &amp; Target</b>	PI3K $\delta$ 4 nM (IC <sub>50</sub> )	mTOR 4 nM (IC <sub>50</sub> )	PI3K $\alpha$ 6 nM (IC <sub>50</sub> )	PI3K $\beta$ 8 nM (IC <sub>50</sub> )																
<b>In Vitro</b>	<p>PI3K-IN-37 (0.005-10 <math>\mu</math>M; 30 min) treatment inhibits PKB Ser473 phosphorylation in Rat1 cells<sup>[1]</sup>.</p> <p>PI3K-IN-37 (0.005-1 <math>\mu</math>M; 60 min) treatment inhibits S6 Ribosomal Protein phosphorylation Ser235/236 in TSC1 nult MEF cells [1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Cell Viability Assay<sup>[1]</sup></p> <table border="1"> <tr> <td>Cell Line:</td> <td>Rat1 cells</td> </tr> <tr> <td>Concentration:</td> <td>0.005-10 <math>\mu</math>M</td> </tr> <tr> <td>Incubation Time:</td> <td>30 min</td> </tr> <tr> <td>Result:</td> <td>Inhibited PI3-kinase isoforms alpha, beta or delta phosphorylation with the IC<sub>50</sub>s of &lt;5 nM, 8 nM, and 18 nM, respectively.</td> </tr> </table> <p>Cell Viability Assay<sup>[1]</sup></p> <table border="1"> <tr> <td>Cell Line:</td> <td>TSC1-/- MEF cells</td> </tr> <tr> <td>Concentration:</td> <td>0.005-1 <math>\mu</math>M</td> </tr> <tr> <td>Incubation Time:</td> <td>60 min</td> </tr> <tr> <td>Result:</td> <td>Inhibited S6 Ribosomal Protein phosphorylation (IC<sub>50</sub>=2 nM).</td> </tr> </table>				Cell Line:	Rat1 cells	Concentration:	0.005-10 $\mu$ M	Incubation Time:	30 min	Result:	Inhibited PI3-kinase isoforms alpha, beta or delta phosphorylation with the IC <sub>50</sub> s of <5 nM, 8 nM, and 18 nM, respectively.	Cell Line:	TSC1-/- MEF cells	Concentration:	0.005-1 $\mu$ M	Incubation Time:	60 min	Result:	Inhibited S6 Ribosomal Protein phosphorylation (IC <sub>50</sub> =2 nM).
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Incubation Time:	60 min																			
Result:	Inhibited S6 Ribosomal Protein phosphorylation (IC <sub>50</sub> =2 nM).																			

### REFERENCES

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

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