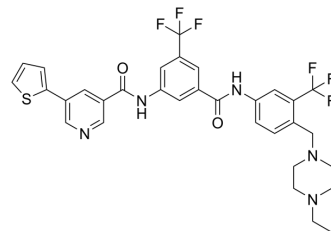


## Antimalarial agent 37

Cat. No.:	HY-161171
CAS No.:	2982633-16-7
Molecular Formula:	C <sub>32</sub> H <sub>29</sub> F <sub>6</sub> N <sub>5</sub> O <sub>2</sub> S
Molecular Weight:	661.66
Target:	Parasite; Ephrin Receptor
Pathway:	Anti-infection; Protein Tyrosine Kinase/RTK
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Antimalarial agent 37 (compound 33) is a selective inhibitor against Type $\alpha$ kinase with antiplasmodial activity. Antimalarial agent 37 exhibited cytotoxicity and selectivity towards cancer cells HepG2 and MCF 7 <sup>[1]</sup> .																
<b>In Vitro</b>	<p>Antimalarial agent 37 (0-50 nM, 72 h) exhibits antiplasmodial activities, with EC<sub>50</sub> values of 31 nM and 35 nM for strains Dd2 and 3D7, respectively<sup>[1]</sup>.</p> <p>Antimalarial agent 37 exhibits microsomal stability in mouse liver microsomes with half-time of 41.4 min and clearance of 17 <math>\mu</math>L/min/mg<sup>[1]</sup>.</p> <p>Antimalarial agent 37 (0-5000 nM, 48 h) reveals cytotoxicity in cells HepG2 and MCF 7, with EC<sub>50</sub> values of 2850 and 3540 nM [1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Cell Proliferation Assay<sup>[1]</sup></p> <table border="1"> <tr> <td>Cell Line:</td> <td>P. falciparum Dd2 and P. falciparum 3D7 strains</td> </tr> <tr> <td>Concentration:</td> <td>0-50 nM</td> </tr> <tr> <td>Incubation Time:</td> <td>72 h</td> </tr> <tr> <td>Result:</td> <td>Exhibited antiplasmodial activities with EC<sub>50</sub> values of 31 nM and 35 nM for strains Dd2 and 3D7.</td> </tr> </table> <p>Cell Viability Assay<sup>[1]</sup></p> <table border="1"> <tr> <td>Cell Line:</td> <td>HepG2, MCF7</td> </tr> <tr> <td>Concentration:</td> <td>0-5000 nM</td> </tr> <tr> <td>Incubation Time:</td> <td>48 h</td> </tr> <tr> <td>Result:</td> <td>Revealed cytotoxicity in HepG2 and MCF7, with EC<sub>50</sub> values of 2850 nM and 3540 nM as well as selectivity index of 92 and 114, respectively</td> </tr> </table>	Cell Line:	P. falciparum Dd2 and P. falciparum 3D7 strains	Concentration:	0-50 nM	Incubation Time:	72 h	Result:	Exhibited antiplasmodial activities with EC <sub>50</sub> values of 31 nM and 35 nM for strains Dd2 and 3D7.	Cell Line:	HepG2, MCF7	Concentration:	0-5000 nM	Incubation Time:	48 h	Result:	Revealed cytotoxicity in HepG2 and MCF7, with EC <sub>50</sub> values of 2850 nM and 3540 nM as well as selectivity index of 92 and 114, respectively
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### REFERENCES

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

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