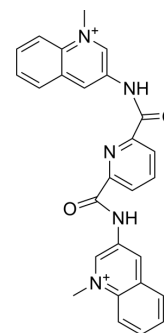


## 360A

<b>Cat. No.:</b>	HY-15595
<b>CAS No.:</b>	794458-56-3
<b>Molecular Formula:</b>	C <sub>27</sub> H <sub>23</sub> N <sub>5</sub> O <sub>2</sub>
<b>Molecular Weight:</b>	449.5
<b>Target:</b>	G-quadruplex; Telomerase
<b>Pathway:</b>	Cell Cycle/DNA Damage
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	360A is a selective stabilizer of G-quadruplex, and also inhibits telomerase activity with an IC <sub>50</sub> of 300 nM for telomerase in TRAP-G4 assay.
<b>IC<sub>50</sub> &amp; Target</b>	IC <sub>50</sub> : 300 nM (Telomerase) <sup>[1]</sup> G-quadruplex <sup>[1]</sup>
<b>In Vitro</b>	360A inhibits telomerase activity and stabilizes G-quadruplex, with an IC <sub>50</sub> of 300 nM for telomerase in TRAP-G4 assay. 360A reduces the viability of glioma cell lines, such as T98G, CB193, U118-MG, SAOS-2 and Primary astrocytes, with IC <sub>50</sub> s of 4.8 ± 1.1 μM, 3.9 ± 0.4 μM, 8.4 ± 0.5 μM, >15 μM and 17.4 ± 1.2 μM, respectively <sup>[1]</sup> . 360A causes Rad51-dependent telomere aberrations preferentially involving the lagging strand telomeres, including telomere losses or telomere doublets, and induces DNA-PKcs-dependent sister telomere fusions <sup>[2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### PROTOCOL

<b>Cell Assay</b> <sup>[1]</sup>	The cell proliferation reagent WST-1 assay is performed. In brief, cells are seeded at various densities, depending on cell type (0.25-4 × 10 <sup>3</sup> cells/well in 100 μL complete medium), in 96-well culture plates and treated with various concentrations (0.1-20 μM) of 360A or the corresponding concentrations of DMSO (control wells) for 3 or 7 days at 37°C in an atmosphere containing 5% CO <sub>2</sub> . For 7-day assays, the medium is changed on day 3. Experiments are performed in triplicate <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
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### CUSTOMER VALIDATION

- Nucleic Acids Res. 2022 May 6;50(8):4574-4600.
- Cell Death Dis. 2021 Oct 25;12(11):999.

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## REFERENCES

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[1]. Pennarun G, et al. Apoptosis related to telomere instability and cell cycle alterations in human glioma cells treated by new highly selective G-quadruplex ligands. *Oncogene*. 2005 Apr 21;24(18):2917-28.

[2]. Gauthier LR, et al. Rad51 and DNA-PKcs are involved in the generation of specific telomere aberrations induced by the quadruplex ligand 360A that impair mitotic cell progression and lead to cell death. *Cell Mol Life Sci*. 2012 Feb;69(4):629-40.

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

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