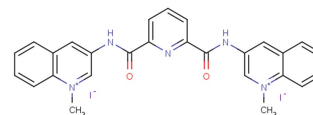


## 360A iodide

## Chemical Properties

CAS No.:	737763-37-0
Formula:	C27H23I2N5O2
Molecular Weight:	703.31
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



## Biological Description

Description	360A iodide is a selective stabilizer of G-quadruplex and inhibits telomerase activity (IC50: 300 nM in TRAP-G4 assay).
Targets(IC50)	Telomerase: 300 nM
In vitro	360A reduces the viability of glioma cell lines, such as CB193, T98G, U118-MG, SAOS-2, and Primary astrocytes, with IC50s of 3.9 $\mu$ M, 4.8 $\mu$ M, 8.4 $\mu$ M, >15 $\mu$ M and 17.4 $\mu$ M, respectively [1]. 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 [2].
Cell Research	In brief, cells are seeded at various densities, depending on cell type (0.25-4 $\times 10^3$ cells/well in 100 $\mu$ L complete medium), in 96-well culture plates and treated with various concentrations (0.1-20 $\mu$ M) of 360A or the corresponding concentrations of DMSO (control wells) for 3 or 7 days at 37°C in an atmosphere containing 5% CO2. For 7-day assays, the medium is changed on day 3. Experiments are performed in triplicate [1].
Animal Research	

## Solubility Information

Solubility	DMSO: 2 mg/mL (2.84 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.422 mL	7.109 mL	14.218 mL
5 mM	0.284 mL	1.422 mL	2.844 mL
10 mM	0.142 mL	0.711 mL	1.422 mL
50 mM	0.028 mL	0.142 mL	0.284 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

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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Tel:781-999-4286

E-mail:[info@targetmol.com](mailto:info@targetmol.com)

Address:36 Washington Street,Wellesley Hills,MA 02481