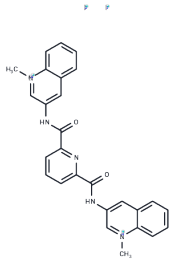
Data Sheet (Cat.No.T13504)

TargetMol

360A iodide

Chemical Properties



CAS No. : 737763-37-0

Formula: C27H23I2N5O2

Molecular Weight: 703.31

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	360A iodide is a selective G-quadruplex stabilizer that inhibits telomerase activity (IC50: 300 nM in TRAP-G4 assay).
Targets(IC50)	Telomerase
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 μM, 4.8 μM, 8.4 μM, >15 μM and 17.4 μM, 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 × 10^3 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% CO2. For 7-day assays, the medium is changed on day 3. Experiments are performed in triplicate [1].

Solubility Information

Solubility	DMSO: 2 mg/mL (2.84 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.4218 mL	7.1092 mL	14.2185 mL
5 mM	0.2844 mL	1.4218 mL	2.8437 mL
10 mM	0.1422 mL	0.7109 mL	1.4218 mL
50 mM	0.0284 mL	0.1422 mL	0.2844 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

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.
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.