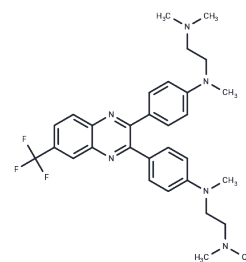


## Telomeric G4s ligand 1

## Chemical Properties

CAS No. : 3047091-81-3  
 Formula: C<sub>31</sub>H<sub>37</sub>F<sub>3</sub>N<sub>6</sub>  
 Molecular Weight: 550.66  
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year  
 Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Telomeric G4s ligand 1 is a telomere G-quadruplex ligand that stabilizes telomeric G4 structures and induces the formation of R-loops, leading to DNA damage responses. It prompts apoptosis in tumor cells and triggers immunogenic cell death (ICD).
Targets(IC50)	Apoptosis,DNA/RNA Synthesis
In vitro	Telomeric G4s ligand 1 (compound R1; 1-4 μM; 24 hours) enhances the stability of G4 structures and induces the formation of R loops in the telomeric regions of MDA-MB-231 cells, triggering DNA damage responses, G2/M cell cycle arrest, apoptosis, and exhibiting antiproliferative effects. Additionally, Telomeric G4s ligand 1 stimulates immunogenic cell death (ICD) in tumor cells, thereby promoting the maturation of bone marrow-derived dendritic cells (BMDC). Treatment with 1 μM, 2 μM, and 4 μM concentrations over 24 hours increased levels of DNA damage-related proteins, including γH2AX and replication protein A subunit.
In vivo	The compound Telomeric G4s ligand 1 (compound R1; 10 mg/kg; intraperitoneal injection; every other day for 14 days) significantly reduces tumor burden through immunomodulatory effects, evidenced by an increase in CD4+ and CD8+ T cells within tumors and elevated cytokine levels in the serum in a breast cancer mouse model.

### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	1.816 mL	9.080 mL	18.160 mL
5 mM	0.3632 mL	1.816 mL	3.632 mL
10 mM	0.1816 mL	0.908 mL	1.816 mL
50 mM	0.0363 mL	0.1816 mL	0.3632 mL

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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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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