

## Zn(BQTC)

## Chemical Properties

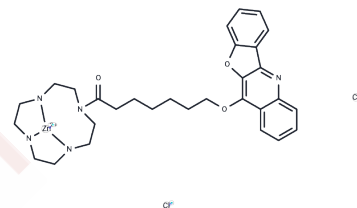
CAS No. : 2785342-54-1

Formula: C<sub>30</sub>H<sub>36</sub>Cl<sub>2</sub>N<sub>5</sub>O<sub>3</sub>Zn

Molecular Weight: 650.92

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	Zn(BQTC) is a potent inhibitor of both mitochondrial DNA (mtDNA) and nuclear DNA (nDNA), causing significant damage that disrupts mitochondrial and nuclear functions sequentially. It facilitates apoptotic signaling pathways triggered by DNA damage and exhibits selective antiproliferative effects on A549R cells, rendering it useful for anticancer research [1].
Targets(IC50)	Apoptosis,DNA/RNA Synthesis
In vitro	Zn(BQTC) (0-100 μM; 6 hours) exhibits potent and selective antiproliferative effects on A549R cells, with an IC50 value of 10 nM [1].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.5363 mL	7.6814 mL	15.3629 mL
5 mM	0.3073 mL	1.5363 mL	3.0726 mL
10 mM	0.1536 mL	0.7681 mL	1.5363 mL
50 mM	0.0307 mL	0.1536 mL	0.3073 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.

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**

This product is for Research Use Only· Not for Human or Veterinary or Therapeutic Use

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