

BKN-1

Chemical Properties

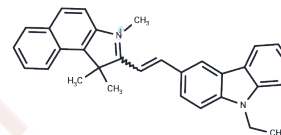
CAS No. : 1607831-82-2

Formula: C₃₁H₂₉N₂

Molecular Weight: 556.48

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	BKN-1, a bifunctional ligand, facilitates the tracking of mtG4s (G-quadruplexes, four-stranded DNA structures containing Hoogsteen bonds) formation via far-red emission and can induce mitochondrial dysfunction. This compound exhibits anti-tumor properties, potentially causing mtDNA loss, damaging mitochondrial integrity, reducing ATP levels, and triggering ROS imbalance, which can lead to apoptosis and autophagy [1].
Targets(IC50)	Apoptosis, Autophagy

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.797 mL	8.985 mL	17.9701 mL
5 mM	0.3594 mL	1.797 mL	3.594 mL
10 mM	0.1797 mL	0.8985 mL	1.797 mL
50 mM	0.0359 mL	0.1797 mL	0.3594 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

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