Data Sheet (Cat.No.T23902)

TargetMol

CM03

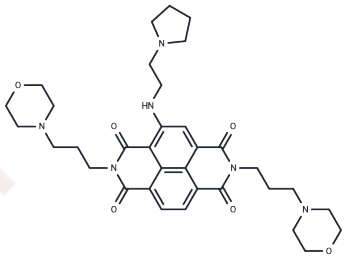
Chemical Properties

CAS No. : 2101208-44-8

Formula: C34H44N6O6

Molecular Weight: 632.75

Storage: Store at low temperature
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	CM03 is a cell-selective G-quadruplex ligand with anticancer activity, stabilizing G4 genes and useful for studying pancreatic cancer.
Targets(IC50)	DNA/RNA Synthesis
In vitro	CM03 (0-100 nM; 96 h) showed high anti-proliferation activity against pancreatic cancer cell lines. [2]
In vivo	CM03 (15 mg/kg) significantly reduced the tumor volume in MIA PaCa-2 xenograft mice. [1]

Solubility Information

Solubility	DMSO: 1 mg/mL (1.58 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.5804 mL	7.902 mL	15.804 mL
5 mM	0.3161 mL	1.5804 mL	3.1608 mL
10 mM	0.158 mL	0.7902 mL	1.5804 mL
50 mM	0.0316 mL	0.158 mL	0.3161 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.

Reference

Ahmed AA, et al. Asymmetrically Substituted Quadruplex-Binding Naphthalene Diimide Showing Potent Activity in Pancreatic Cancer Models. ACS Med Chem Lett. 2020 Jul 16;11(8):1634-1644.
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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481