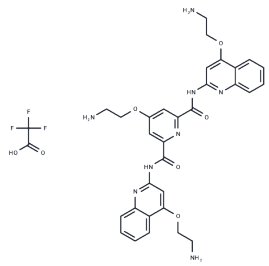
Data Sheet (Cat.No.T4470)

TargetMol

Pyridostatin TFA

Chemical Properties



CAS No. : 1472611-44-1

Formula: C37H35F9N8O11

Molecular Weight: 938.71

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	Pyridostatin Trifluoroacetate Salt is a G-quadruplexe stabilizer with Kd of 490 nM in a cell-free assay, which targets a series of proto-oncogenes including c-kit, K-ras and Bcl-2.
Targets(IC50)	DNA/RNA Synthesis
In vitro	Pyridostatin decreases the proliferation of MRC-5-SV40 cells and various cancer cell lines, and induces cell-cycle arrest by DNA-damage checkpoint activation. Pyridostatin also reduces SRC-dependent cell motility in MDA-MB-231 cells by interacting with G-quadruplex motifs in SRC.Pyridostatin decreases EBNA1 synthesis via inhibition of G-quadruplexes.
Cell Research	Cell lines: MRC-5-SV40 cells and various cancer cell linesConcentrations: 10 μMIncubation Time: 48 hMethod: Cells are plated at equal confluence and are left either untreated or were treated with 2 μM pyridostatin continually during the indicated time before harvesting the cells. Cells from individual plates are trypsinized and counted in a Coulter counter. Graphs represent the total cell numbers at each time interval, and the error bars represent the s.e.m. Data represent three independent experiments.

Solubility Information

Solubility	DMSO: 52 mg/mL (55.4 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.0653 mL	5.3265 mL	10.6529 mL
5 mM	0.2131 mL	1.0653 mL	2.1306 mL
10 mM	0.1065 mL	0.5326 mL	1.0653 mL
50 mM	0.0213 mL	0.1065 mL	0.2131 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

Koirala D,etal.A single-molecule platform for investigation of interactions between G-quadruplexes and small-molecule ligands.Nat Chem. 2011 Aug 28;3(10):782-7.
Rodriguez R,etal. Small-molecule-induced DNA damage identifies alternative DNA structures in human genes.Nat Chem Biol. 2012 Feb 5;8(3):301-10.
Murat P,etal.G-quadruplexes regulate Epstein-Barr virus-encoded nuclear antigen 1 mRNA translation.Nat Chem Biol. 2014 May;10(5):358-64.

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