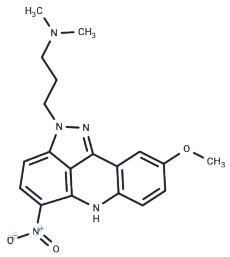
Data Sheet (Cat.No.T28475)

TargetMol

Pyrazoloacridine

Chemical Properties



CAS No. : 99009-20-8

Formula: C19H21N5O3

Molecular Weight: 367.4

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	Pyrazoloacridine (PD 115934) is a nucleic acid binding agent that inhibits the activity of topo I and II with an IC50 of 1.25 μM in K562 cells. Pyrazoloacridine shows anti-cancer activity.
Targets(IC50)	Apoptosis,Topoisomerase
In vitro	In oxic and hypoxic HCT-8 cells, Pyrazoloacridine exhibits IC50 values of 10.7 μM and 4.5 μM[2]. Pyrazoloacridine causes delayed DNA fragmentation in MCF-7 cells and induces apoptosis in P53-deficient Hep 3B cells. Pyrazoloacridine exhibits activities against cisplatin- and paclitaxel-resistant ovarian cancer[3].

Solubility Information

Solubility	DMSO: 5.22 mg/mL (14.21 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7218 mL	13.6091 mL	27.2183 mL
5 mM	0.5444 mL	2.7218 mL	5.4437 mL
10 mM	0.2722 mL	1.3609 mL	2.7218 mL
50 mM	0.0544 mL	0.2722 mL	0.5444 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

Chen DS, et al. Combinatorial synthesis of pyrazoloquinoline and pyrazoloacridine derivatives with high regioselectivity. Comb Chem High Throughput Screen. 2013 Jun 28;16(7):550-61.

J S Sebolt, et al. Pyrazoloacridines, a new class of anticancer agents with selectivity against solid tumors in vitro. Cancer Res. 1987 Aug 15;47(16):4299-304.

A A Adjei, et al. Effect of pyrazoloacridine (NSC 366140) on DNA topoisomerases I and II. Clin Cancer Res. 1998 Mar; 4(3):683-91.

Reid JM, et al. The metabolism of pyrazoloacridine (NSC 366140) by cytochromes p450 and flavin monooxygenase in human liver microsomes. Clin Cancer Res. 2004 Feb 15;10(4):1471-80.