Pyrazoloacridine

MedChemExpress

Cat. No.:	HY-108969		
CAS No.:	99009-20-8		
Molecular Formula:	C ₁₉ H ₂₁ N ₅ O	3	
Molecular Weight:	367.4		
Target:	Topoisome	rase; Apc	optosis
Pathway:	Cell Cycle/D	ONA Dam	age; Apoptosis
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month

SOLVENT & SOLUBILITY

In Vitro

DMSO : 16.67 mg/mL (45.37 mM; ultrasonic and warming and heat to 60°C)

	Solvent Mass Concentration	1 mg	5 mg	10 mg
Preparing Stock Solutions	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

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIV	ІТҮ	
Description	,	40), an intercalating agent with anti-cancer activity, inhibits the activity of topoisomerases 1 and 6140) exhibits an IC ₅₀ of 1.25 μ M in K562 myeloid leukemia cells for 24 h treatment ^{[1][2]} .
In Vitro	Pyrazoloacridine (NSC 3661 Pyrazoloacridine (NSC 3661 Pyrazoloacridine (NSC 3661 Pyrazoloacridine (NSC 3661	 40, PD 115934) exhibits IC₅₀ values of 10.7 μM and 4.5 μM for oxic and hypoxic HCT-8 cells^[1]. 40, 2-4 μM) abolishes the catalytic activity of both topo I and topo II in vitro^[2]. 40) displays activity against cisplatin- and paclitaxel-resistant ovarian cancer^[2]. 40) has been shown to cause delayed DNA fragmentation in MCF-7 breast cancer cells^[2]. 40) induces apoptosis in P53-deficient Hep 3B human hepatoma cells^[2]. confirmed the accuracy of these methods. They are for reference only.

Product Data Sheet

N-N

0^{~N'}0

N H

Incubation Time:	1 h or 24 h.
Result:	When K562 cells were incubated with PA for 1 h and then plated in soft agar, an IC ₅₀ of μ M was observed. In contrast, when cells were incubated for 24 h with PA, the IC ₅₀ was 1.25 μ M.

REFERENCES

[1]. 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.

[2]. 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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