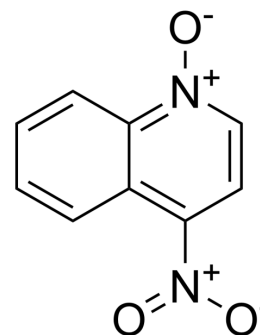


Nitrochin

Cat. No.:	HY-33354
CAS No.:	56-57-5
Molecular Formula:	C ₉ H ₆ N ₂ O ₃
Molecular Weight:	190.16
Target:	Apoptosis
Pathway:	Apoptosis
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (262.94 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	5.2587 mL	26.2936 mL	52.5873 mL
	5 mM	1.0517 mL	5.2587 mL	10.5175 mL
	10 mM	0.5259 mL	2.6294 mL	5.2587 mL

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

BIOLOGICAL ACTIVITY

Description

Nitrochin (4-NQO) is a chemical carcinogen. Nitrochin induces oncostatin-M (OSM) in esophageal cells. Nitrochin induces DNA damage, and induces apoptosis via a p53-dependent mitochondrial signaling pathway^{[1][2]}.

REFERENCES

- [1]. Mukherjee A, et al. Carcinogen 4-Nitroquinoline Oxide (4-NQO) Induces Oncostatin-M (OSM) in Esophageal Cells. *In Vivo*. 2023 Mar-Apr;37(2):506-518.
- [2]. Han H, et al. 4-NQO induces apoptosis via p53-dependent mitochondrial signaling pathway. *Toxicology*. 2007 Feb 12;230(2-3):151-63.

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

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