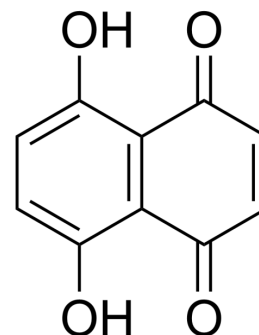


Naphthazarin

Cat. No.:	HY-N7526
CAS No.:	475-38-7
Molecular Formula:	C ₁₀ H ₆ O ₄
Molecular Weight:	190.15
Target:	Apoptosis
Pathway:	Apoptosis
Storage:	<div> <div>Powder</div> <div>-20°C 3 years</div> <div>4°C 2 years</div> </div> <div> <div>In solvent</div> <div>-80°C 6 months</div> <div>-20°C 1 month</div> </div>



SOLVENT & SOLUBILITY

In Vitro	DMSO : 7.14 mg/mL (37.55 mM; ultrasonic and warming and heat to 60°C)					
	Preparing Stock Solutions	<div><div>Solvent</div><div>Concentration</div></div>	Mass	1 mg	5 mg	10 mg
		1 mM		5.2590 mL	26.2950 mL	52.5901 mL
		5 mM		1.0518 mL	5.2590 mL	10.5180 mL
	10 mM		0.5259 mL	2.6295 mL	5.2590 mL	
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 0.71 mg/mL (3.73 mM); Suspended solution; Need ultrasonic					

BIOLOGICAL ACTIVITY

Description	Naphthazarin (DHNQ) is a naturally occurring compound. Naphthazarin is effective by various cellular mechanisms including oxidative stress, activation of mitochondrial apoptosis-inducing factor (AIF), depolymerization of microtubules, interference with lysosomal function and p53-dependent p21 activation. Naphthazarin triggers apoptosis and has anti-tumor effects ^{[1][2]} .
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CUSTOMER VALIDATION

- Int J Biol Macromol. 2021 Apr 24.

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REFERENCES

- [1]. Seon Young Choi, et al. Naphthazarin has a protective effect on the 1-methyl-4-phenyl-1,2,3,4-tetrahydropyridine-induced Parkinson's disease model. J Neurosci Res. 2012 Sep;90(9):1842-9.
- [2]. Omar Aljanadi, et al. Stimulation of Suicidal Erythrocyte Death by Naphthazarin. Basic Clin Pharmacol Toxicol. 2015 Dec;117(6):369-74.
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Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA