

Naphthazarin

Chemical Properties

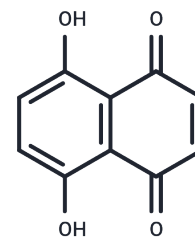
CAS No. : 475-38-7

Formula: C₁₀H₆O₄

Molecular Weight: 190.15

Storage: Keep away from moisture, Store under nitrogen
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	Naphthazarin (5,8-Dihydroxy-1,4-naphthoquinone) 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. It triggers apoptosis and has anti-tumor effects
Targets(IC50)	Apoptosis,Akt,Autophagy,PI3K

Solubility Information

Solubility	DMSO: 10 mg/mL (52.59 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	---

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.259 mL	26.295 mL	52.5901 mL
5 mM	1.0518 mL	5.259 mL	10.518 mL
10 mM	0.5259 mL	2.6295 mL	5.259 mL
50 mM	0.1052 mL	0.5259 mL	1.0518 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

Omar Aljanadi, et al. Stimulation of Suicidal Erythrocyte Death by Naphthazarin. Basic Clin Pharmacol Toxicol. 2015 Dec;117(6):369-74.

Yang N, Zheng R R, Chen Z Y, et al. A carrier free photodynamic oxidizer for enhanced tumor therapy by redox homeostasis disruption. Biomaterials Science. 2022, 10(6): 1575-1581

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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only· Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481