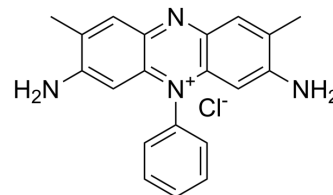


Safranin

Cat. No.:	HY-D0215
CAS No.:	477-73-6
Molecular Formula:	C ₂₀ H ₁₉ ClN ₄
Molecular Weight:	350.84
Target:	Fluorescent Dye
Pathway:	Others
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 25 mg/mL (71.26 mM); ultrasonic and warming and heat to 60°C																					
	<table border="1"> <thead> <tr> <th rowspan="2">Solvent</th> <th rowspan="2">Mass</th> <th colspan="3">Concentration</th> </tr> <tr> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td rowspan="3">Preparing Stock Solutions</td> <td>1 mM</td> <td>2.8503 mL</td> <td>14.2515 mL</td> <td>28.5030 mL</td> </tr> <tr> <td>5 mM</td> <td>0.5701 mL</td> <td>2.8503 mL</td> <td>5.7006 mL</td> </tr> <tr> <td>10 mM</td> <td>0.2850 mL</td> <td>1.4252 mL</td> <td>2.8503 mL</td> </tr> </tbody> </table>	Solvent	Mass	Concentration			1 mg	5 mg	10 mg	Preparing Stock Solutions	1 mM	2.8503 mL	14.2515 mL	28.5030 mL	5 mM	0.5701 mL	2.8503 mL	5.7006 mL	10 mM	0.2850 mL	1.4252 mL	2.8503 mL
Solvent	Mass			Concentration																		
		1 mg	5 mg	10 mg																		
Preparing Stock Solutions	1 mM	2.8503 mL	14.2515 mL	28.5030 mL																		
	5 mM	0.5701 mL	2.8503 mL	5.7006 mL																		
	10 mM	0.2850 mL	1.4252 mL	2.8503 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: 2.5 mg/mL (7.13 mM); Clear solution; Need ultrasonic																					

BIOLOGICAL ACTIVITY

Description	Safranin (Safranin T) is an important and classical phenazine dye. Safranin has been extensively used in the academic field as a spectroscopic probe and indicator. Safranin possesses a planar structure and cationic charge. It can readily intercalate into biological macromolecules, including DNA and proteins. Safranin can be used as a redox indicator in the determination of metal ion concentration ^[1] .
--------------------	--

REFERENCES

[1]. Wan H, et al. Structure characterization and optical properties investigation of the four main components of the classical phenazine dye Safranin O. Analyst. 2019;144(24):7149-7156.

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