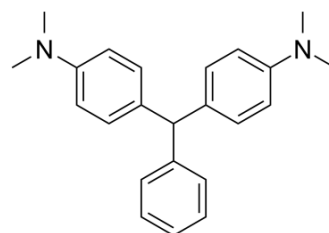


Leucomalachite green

Cat. No.:	HY-D0300		
CAS No.:	129-73-7		
Molecular Formula:	C ₂₃ H ₂₆ N ₂		
Molecular Weight:	330.47		
Target:	Others		
Pathway:	Others		
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 : 100 mg/mL (302.60 mM; Need ultrasonic)

Concentration	Solvent	Mass	1 mg			5 mg			10 mg		
			Concentration			Concentration			Concentration		
1 mM			3.0260 mL			15.1300 mL			30.2599 mL		
5 mM			0.6052 mL			3.0260 mL			6.0520 mL		
10 mM			0.3026 mL			1.5130 mL			3.0260 mL		

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

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (7.56 mM); Suspended solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (7.56 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (7.56 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Leucomalachite green is a triphenylmethane dye used to detect blood. Leucomalachite green, a major metabolite of malachite green, is a potential carcinogen, teratogen and mutagen^{[1][2]}.

REFERENCES

[1]. Ya-hui Li, et al. Development of a group selective molecularly imprinted polymers based solid phase extraction of malachite green from fish water and fish feed

samples. Anal Chim Acta. 2008 Aug 29;624(2):317-25.

[2]. Kohji Ishihama, et al. Floating aerial blood mists in the operating room. J Hazard Mater. 2010 Sep 15;181(1-3):1179-81.

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