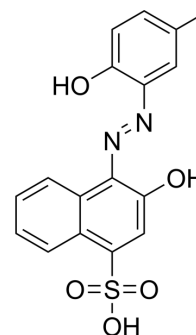


Calmagite

Cat. No.:	HY-D0801
CAS No.:	3147-14-6
Molecular Formula:	C ₁₇ H ₁₄ N ₂ O ₅ S
Molecular Weight:	358.37
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 : 33.33 mg/mL (93.00 mM; Need ultrasonic)					
	H ₂ O : 7.14 mg/mL (19.92 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
		Concentration				
		1 mM		2.7904 mL	13.9521 mL	27.9041 mL
5 mM			0.5581 mL	2.7904 mL	5.5808 mL	
	10 mM		0.2790 mL	1.3952 mL	2.7904 mL	
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (6.98 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (6.98 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Calmagite is a complexometric indicator which can be used to detect calcium and magnesium in various samples.
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REFERENCES

[1]. Rasouli Z, et al. Simultaneously detection of calcium and magnesium in various samples by calmagite and chemometrics data processing. Spectrochim Acta A Mol Biomol Spectrosc. 2016 Dec 5;169:72-81.

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

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