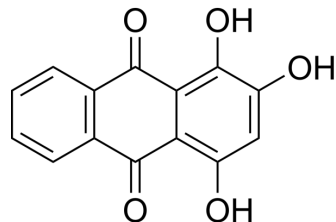


Purpurin

Cat. No.:	HY-N0571
CAS No.:	81-54-9
Molecular Formula:	C ₁₄ H ₈ O ₅
Molecular Weight:	256.21
Target:	Fungal; Bacterial; Antibiotic
Pathway:	Anti-infection
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 125 mg/mL (487.88 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		1 mg	5 mg	10 mg
		1 mM	3.9030 mL	19.5152 mL	39.0305 mL
		5 mM	0.7806 mL	3.9030 mL	7.8061 mL
	10 mM	0.3903 mL	1.9515 mL	3.9030 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: 10 mg/mL (39.03 mM); Suspended solution; Need ultrasonic 2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: 10 mg/mL (39.03 mM); Suspended solution; Need ultrasonic				

BIOLOGICAL ACTIVITY

Description	Purpurin is a natural anthraquinone compound from <i>Rubia cordifolia</i> L.. Purpurin has antidepressant-like effects ^[1] .
In Vivo	Purpurin (Orally; 2, 6, 18 mg/kg for 3 weeks) exerts dose-dependently antidepressant-like effects on behavior and stress axis reactivity in adult male C57BL/6J mice (6-7 weeks old upon arrival) ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Ma L, et al. Purpurin exerted antidepressant-like effects on behavior and stress axis reactivity: evidence of serotonergic engagement. *Psychopharmacology (Berl)*. 2020

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

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