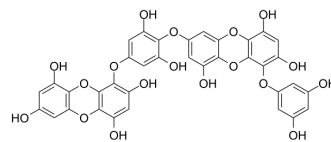


Dieckol

Cat. No.:	HY-147059	
CAS No.:	88095-77-6	
Molecular Formula:	C ₃₆ H ₂₂ O ₁₈	
Molecular Weight:	742.55	
Target:	Bacterial	
Pathway:	Anti-infection	
Storage:	Powder	-20°C 3 years
	In solvent	-80°C 6 months
		-20°C 1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 50 mg/mL (67.34 mM; Need ultrasonic)				
	Preparing Stock Solutions	Solvent \ Mass \ Concentration	1 mg	5 mg	10 mg
		1 mM	1.3467 mL	6.7336 mL	13.4671 mL
		5 mM	0.2693 mL	1.3467 mL	2.6934 mL
		10 mM	0.1347 mL	0.6734 mL	1.3467 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 (3.37 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Dieckol, is a naturally occurring phlorotannin found in some brown algal species. Dieckol has anti-bacterial, anti-cancer, anti-oxidant, anti-aging, anti-diabetic, neuroprotective actions ^[1] .
In Vitro	Dieckol plays an important role in apoptosis induction via inhibiting the PI3K, AKT, mTOR and FAK signaling molecules ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Dieckol remarkably inhibited the lipid accumulation in high fat diet induced animal models ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

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