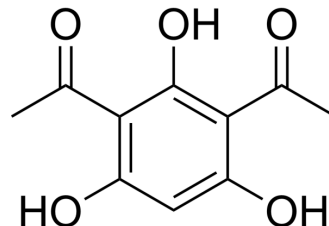


2,4-Diacetylphloroglucinol

Cat. No.:	HY-118448
CAS No.:	2161-86-6
Molecular Formula:	C ₁₀ H ₁₀ O ₅
Molecular Weight:	210.18
Target:	Antibiotic; Bacterial; Fungal; Parasite
Pathway:	Anti-infection
Storage:	-20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (475.78 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		1 mg	5 mg	10 mg
		1 mM	4.7578 mL	23.7891 mL	47.5783 mL
		5 mM	0.9516 mL	4.7578 mL	9.5157 mL
10 mM		0.4758 mL	2.3789 mL	4.7578 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (11.89 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (11.89 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (11.89 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	2,4-Diacetylphloroglucinol, produced by some isolates of the beneficial bacterium <i>Pseudomonas fluorescens</i> , is a potent antibiotic. 2,4-Diacetylphloroglucinol is active against numerous organisms, including plants, fungi, viruses, bacteria, and nematodes ^[1] .
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REFERENCES

[1]. Susan L F Meyer, et al. Toxicity of 2,4-diacetylphloroglucinol (DAPG) to plant-parasitic and bacterial-feeding nematodes. *J Nematol.* 2009 Dec;41(4):274-80.

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

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