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Cat. No.:	HY-N2224	
CAS No.:	22255-13-6	
Molecular Formula:	C ₂₀ H ₁₈ O ₁₁	
Molecular Weight:	434.35	
Target:	Bacterial	
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 : 100 mg/mL (230.23 mM; Need ultrasonic)					
P S	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg	
		1 mM	2.3023 mL	11.5115 mL	23.0229 mL	
		5 mM	0.4605 mL	2.3023 mL	4.6046 mL	
		10 mM	0.2302 mL	1.1511 mL	2.3023 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 (5.76 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (5.76 mM); Clear solution 					

BIOLOGICAL ACTIV				
Description	Guaijaverin is a urease inhibitor with an IC ₅₀ of 120 μM. Guaijaverin shows antioxidant and anti-Streptococcus mutans activities ^{[1][2][3]} .			
IC ₅₀ & Target	IC50: 120 μM (Urease) ^[1]			
In Vitro	Guaijaverin has anti-Strep.mutans activity, with MIC values of 4 and 2 mg/ml for MTCC 1943 and CLSM 001 strain of Strep. mutans, respectively ^[3] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			

Guaijaverin	
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[1]. Shabana S, et al. Inhibitory activity against urease of quercetin glycosides isolated from Allium cepa and Psidium guajava. Biosci Biotechnol Biochem. 2010;74(4):878-80.

[2]. Caruso IP, et al. Exploring the binding mechanism of Guaijaverin to human serum albumin: fluorescencespectroscopy and computational approach. Spectrochim Acta A Mol Biomol Spectrosc. 2012 Nov;97:449-55.

[3]. Prabu GR, et al. Guaijaverin -- a plant flavonoid as potential antiplaque agent against Streptococcus mutans. J Appl Microbiol. 2006 Aug;101(2):487-95.

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

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