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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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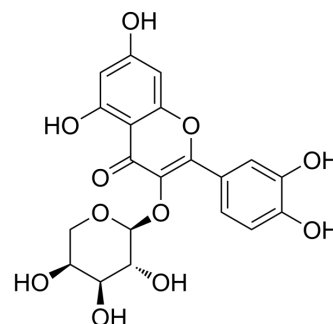
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Guaijaverin

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)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	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	1. 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 2. 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 ACTIVITY

Description	Guaijaverin is a urease inhibitor with an IC ₅₀ of 120 μM. Guaijaverin shows antioxidant and anti-Streptococcus mutans activities ^{[1][2][3]} .
IC₅₀ & Target	IC ₅₀ : 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.

REFERENCES

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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 Guajaverin to human serum albumin: fluorescence spectroscopy and computational approach. *Spectrochim Acta A Mol Biomol Spectrosc*. 2012 Nov;97:449-55.
- [3]. Prabu GR, et al. Guajaverin -- a plant flavonoid as potential antiplaque agent against *Streptococcus mutans*. *J Appl Microbiol*. 2006 Aug;101(2):487-95.
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Caution: Product has not been fully validated for medical applications. For research use only.

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