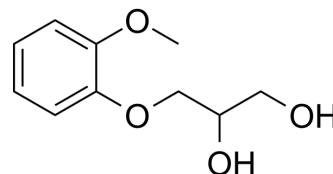


Guaifenesin

Cat. No.:	HY-B0264		
CAS No.:	93-14-1		
Molecular Formula:	C ₁₀ H ₁₄ O ₄		
Molecular Weight:	198.22		
Target:	Others		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (504.49 mM; Need ultrasonic and warming)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	5.0449 mL	25.2245 mL	50.4490 mL
5 mM	1.0090 mL	5.0449 mL	10.0898 mL
10 mM	0.5045 mL	2.5224 mL	5.0449 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Guaifenesin (Guaiacol glyceryl ether), a constituent of guaiac resin from the wood of *Guajacum officinale* Linné, is an expectorant. Guaifenesin can alleviate cough discomfort by increasing sputum volume and decreasing its viscosity, thereby promoting effective cough^{[1][2]}.

REFERENCES

- [1]. Bennett, S., N. Hoffman, and M. Monga, Ephedrine- and guaifenesin-induced nephrolithiasis. *J Altern Complement Med*, 2004. 10(6): p. 967-9.
- [2]. Dicipinigitis PV, et, al. Effect of guaifenesin on cough reflex sensitivity. *Chest*. 2003 Dec;124(6):2178-81.

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

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