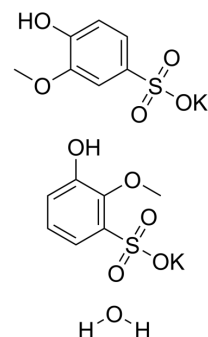


Potassium guaiacolsulfonate hemihydrate

Cat. No.:	HY-107798
CAS No.:	78247-49-1
Molecular Formula:	C ₇ H ₈ O ₅ S _{1/2} H ₂ O.K
Molecular Weight:	251.31
Target:	Bacterial
Pathway:	Anti-infection
Storage:	4°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	H ₂ O : 62.5 mg/mL (248.70 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
			1 mM	3.9791 mL	19.8957 mL	39.7915 mL
			5 mM	0.7958 mL	3.9791 mL	7.9583 mL
			10 mM	0.3979 mL	1.9896 mL	3.9791 mL
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: PBS Solubility: 100 mg/mL (397.91 mM); Clear solution; Need ultrasonic					

BIOLOGICAL ACTIVITY

Description	Potassium guaiacolsulfonate hemihydrate is an orally active expectorant used for acute respiratory tract infections. Potassium guaiacolsulfonate hemihydrate helps loosen mucus and used for a cough caused by the common cold, infections or allergies in combination with other agents ^{[1][2]} .
In Vitro	Potassium guaiacolsulfonate hemihydrate works by thinning mucus (phlegm) in the lungs and making it less sticky and easier to cough up ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Ozlem Aksu Dönmez, et al. Simultaneous Determination of Potassium Guaiacolsulfonate, Guaifenesin, Diphenhydramine HCl and Carbetapentane Citrate in Syrups by Using HPLC-DAD Coupled With Partial Least Squares Multivariate Calibration. Talanta. 2011 Feb 15;83(5):1601-5.

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

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