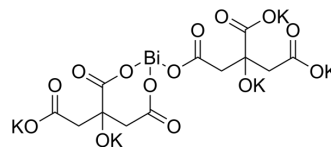


Bismuth subcitrate potassium

Cat. No.:	HY-16102
CAS No.:	880149-29-1
Molecular Formula:	C ₁₂ H ₈ BiK ₅ O ₁₄
Molecular Weight:	780.66
Target:	Bacterial; Antibiotic
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

H₂O : 100 mg/mL (128.10 mM; Need ultrasonic)

Solvent	Mass	Concentration		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.2810 mL	6.4049 mL	12.8097 mL
	5 mM	0.2562 mL	1.2810 mL	2.5619 mL
	10 mM	0.1281 mL	0.6405 mL	1.2810 mL

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

BIOLOGICAL ACTIVITY

Description

Bismuth subcitrate potassium is an antibiotic against 12 *C. pyloridis* strains with MIC₅₀ of 8 ug/ml^[1]. Bismuth subcitrate potassium is used to treat diseases of the upper gastrointestinal tract infected with *Helicobacter pylori*^[2].

IC₅₀ & Target

MIC₅₀: 8 ug/ml (*C. pyloridis*)^[1]

REFERENCES

[1]. Van Caekenberghe DL, et al. In vitro synergistic activity between bismuth subcitrate and various antimicrobial agents against *Campylobacter pyloridis* (*C. pylori*). *Antimicrob Agents Chemother.* 1987 Sep;31(9):1429-30.

[2]. Malfertheiner P, et al. *Helicobacter pylori* eradication with a capsule containing bismuth subcitrate potassium, metronidazole, and tetracycline given with omeprazole versus clarithromycin-based triple therapy: a randomised, open-label, non-inferiority, phase 3 trial. *Lancet.* 2011 Mar 12;377(9769):905-13.

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

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