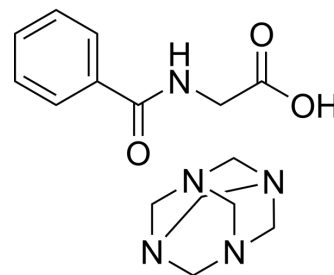


Methenamine hippurate

Cat. No.:	HY-B1691
CAS No.:	5714-73-8
Molecular Formula:	C ₁₅ H ₂₁ N ₅ O ₃
Molecular Weight:	319.36
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 : 100 mg/mL (313.13 mM; Need ultrasonic)					
	DMSO : 25 mg/mL (78.28 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
		Concentration				
		1 mM		3.1313 mL	15.6563 mL	31.3126 mL
5 mM			0.6263 mL	3.1313 mL	6.2625 mL	
10 mM		0.3131 mL	1.5656 mL	3.1313 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 (313.13 mM); Clear solution; Need ultrasonic					

BIOLOGICAL ACTIVITY

Description	Methenamine hippurate (Hexamine hippurate) is an orally active urinary antiseptic agent with a wide antibacterial spectrum. Methenamine hippurate is effective against most common urinary tract pathogens ^{[1][2]} .
In Vitro	Methenamine hippurate is a urinary antibacterial agent which releases formaldehyde and is excreted in the urine. Methenamine hippurate has a demonstrable activity in vitro at pH 5 to 6 against Escherichia coli, Staphylococcus aureus, Aerobacter aerogenes, Pseudomonas aeruginosa and Proteus vulgaris, and a wide range of action against Klebsiella pneumoniae, Ps. aeruginosa, E. coli, Staph. aureus and Streptococcus haemolytic at pH of 7.4. This action is more effective than that of Methenamine alone, of Hippuric acid alone or of Sulphadiazine ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Forbes R, et al. Alternatives To prophylactic Antibiotics for the treatment of Recurrent urinary tract infection in women (ALTAR): study protocol for a multicentre, pragmatic, patient-randomised, non-inferiority trial. *Trials*. 2018;19(1):616. Published 2018 Nov 9.

[2]. Gibson GR. A clinical appraisal of methenamine hippurate in urinary tract infections. *Med J Aust*. 1970;1(4):167-170.

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

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