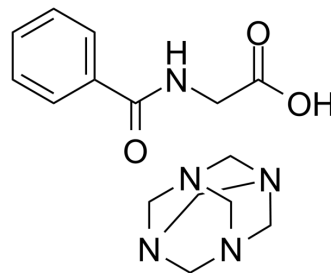


## Methenamine hippurate

<b>Cat. No.:</b>	HY-B1691		
<b>CAS No.:</b>	5714-73-8		
<b>Molecular Formula:</b>	C <sub>15</sub> H <sub>21</sub> N <sub>5</sub> O <sub>3</sub>		
<b>Molecular Weight:</b>	319.36		
<b>Target:</b>	Bacterial		
<b>Pathway:</b>	Anti-infection		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

H<sub>2</sub>O : 100 mg/mL (313.13 mM; Need ultrasonic)  
 DMSO : 25 mg/mL (78.28 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	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.

### 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<sup>[1][2]</sup>.

#### 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 haemolyticus* at pH of 7.4. This action is more effective than that of Methenamine alone, of Hippuric acid alone or of Sulphadiazine<sup>[1]</sup>.  
 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,

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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.

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

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