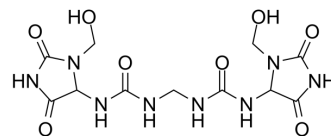


## Imidazolidinyl urea

Cat. No.:	HY-B1158		
CAS No.:	39236-46-9		
Molecular Formula:	C <sub>11</sub> H <sub>16</sub> N <sub>8</sub> O <sub>8</sub>		
Molecular Weight:	388.29		
Target:	Bacterial		
Pathway:	Anti-infection		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : ≥ 100 mg/mL (257.54 mM)  
 H<sub>2</sub>O : 100 mg/mL (257.54 mM; Need ultrasonic)  
 \* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent		Mass		
	Concentration		1 mg	5 mg	10 mg
	1 mM		2.5754 mL	12.8770 mL	25.7539 mL
	5 mM		0.5151 mL	2.5754 mL	5.1508 mL
	10 mM		0.2575 mL	1.2877 mL	2.5754 mL

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

#### In Vivo

- Add each solvent one by one: PBS  
Solubility: 100 mg/mL (257.54 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 2.5 mg/mL (6.44 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.5 mg/mL (6.44 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (6.44 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Imidazolidinyl urea is an antimicrobial preservative used in cosmetics, acts as a formaldehyde releaser.

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## REFERENCES

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[1]. Doi T, et al. Characterization of the decomposition of compounds derived from imidazolidinyl urea in cosmetics and patch test materials. Contact Dermatitis. 2012 Nov;67(5):284-92.

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

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