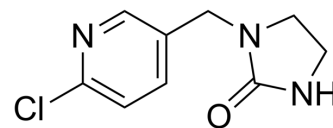


## Imidacloprid-urea

<b>Cat. No.:</b>	HY-131964		
<b>CAS No.:</b>	120868-66-8		
<b>Molecular Formula:</b>	C <sub>9</sub> H <sub>10</sub> ClN <sub>3</sub> O		
<b>Molecular Weight:</b>	211.65		
<b>Target:</b>	Drug Metabolite		
<b>Pathway:</b>	Metabolic Enzyme/Protease		
<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

DMSO : 125 mg/mL (590.60 mM; Need ultrasonic)  
 H<sub>2</sub>O : 12.5 mg/mL (59.06 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	4.7248 mL	23.6239 mL	47.2478 mL
	5 mM	0.9450 mL	4.7248 mL	9.4496 mL
	10 mM	0.4725 mL	2.3624 mL	4.7248 mL

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

### BIOLOGICAL ACTIVITY

#### Description

Imidacloprid-urea is a metabolite of [Imidacloprid](#). Imidacloprid is an effective and widely used neonicotinoid pesticide to control pests of cereals, vegetables, tea and cotton. Imidacloprid-urea can occupy or block adsorption sites of imidacloprid on soil, potentially affecting the fate, transport, and bioavailability of imidacloprid in the environment<sup>[1]</sup>.

### REFERENCES

[1]. Liu W, et al. Competitive sorption between imidacloprid and imidacloprid-urea on soil clay minerals and humic acids. J Agric Food Chem. 2002 Nov 6;50(23):6823-7.

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

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