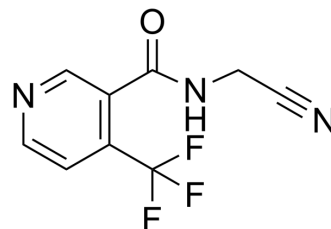


## Flonicamid

<b>Cat. No.:</b>	HY-119649		
<b>CAS No.:</b>	158062-67-0		
<b>Molecular Formula:</b>	C <sub>9</sub> H <sub>6</sub> F <sub>3</sub> N <sub>3</sub> O		
<b>Molecular Weight:</b>	229.16		
<b>Target:</b>	Parasite		
<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

<b>In Vitro</b>	DMSO : 100 mg/mL (436.38 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	<b>Preparing Stock Solutions</b>	1 mM	4.3638 mL	21.8188 mL	43.6376 mL
		5 mM	0.8728 mL	4.3638 mL	8.7275 mL
10 mM		0.4364 mL	2.1819 mL	4.3638 mL	
Please refer to the solubility information to select the appropriate solvent.					
<b>In Vivo</b>	<ol style="list-style-type: none"> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline Solubility: ≥ 2.5 mg/mL (10.91 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (10.91 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.5 mg/mL (10.91 mM); Clear solution</li> </ol>				

### BIOLOGICAL ACTIVITY

<b>Description</b>	Flonicamid (IKI220) is a novel systemic insecticide with selective activity against hemipterous pests. The main insecticidal mechanism of flonicamid is starvation based on the inhibition of stylet penetration to plant tissues <sup>[1]</sup> .
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### REFERENCES

[1]. Masayuki Morita, et al. Flonicamid, a novel insecticide with a rapid inhibitory effect on aphid feeding. *Pest Manag Sci.* 2007 Oct;63(10):969-73.

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

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