Flonicamid

Cat. No.: HY-119649

CAS No.: 158062-67-0

Molecular Formula: $C_9H_6F_3N_3O$

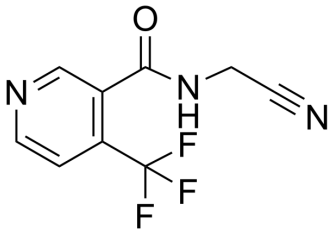
Molecular Weight: 229.16

Target: Parasite

Pathway: Anti-infection

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (436.38 mM; Need ultrasonic)

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (10.91 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (10.91 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (10.91 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

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[1].

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.

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

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