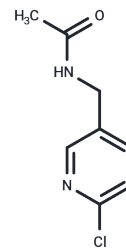


## 5-AAM-2-CP

## Chemical Properties

CAS No. :	175424-74-5
Formula:	C <sub>8</sub> H <sub>9</sub> ClN <sub>2</sub> O
Molecular Weight:	184.62
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



## Biological Description

Description	5-AAM-2-CP is one of the major metabolites of Acetamiprid. Acetamiprid, a nAChR agonist, is a neonicotinoid insecticide used worldwide.
Targets(IC50)	AChR
In vitro	5-AAM-2-CP is the hydrolyzed product of Acetamiprid and can be tested in both blood and urine[1].

## Solubility Information

Solubility	DMSO: 50 mg/mL (270.83 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (10.83 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

---

	1mg	5mg	10mg
1 mM	5.4165 mL	27.0827 mL	54.1653 mL
5 mM	1.0833 mL	5.4165 mL	10.8331 mL
10 mM	0.5417 mL	2.7083 mL	5.4165 mL
50 mM	0.1083 mL	0.5417 mL	1.0833 mL

---

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Tadashi Yamamuro, et al. Simultaneous determination of neonicotinoid insecticides in human serum and urine using diatomaceous earth-assisted extraction and liquid chromatography-tandem mass spectrometry. *J Chromatogr B Analyt Technol Biomed Life Sci.* 2014 Oct 15;969:85-94.

Terayama H, et al. Effect of acetamiprid on the immature murine testes. *Int J Environ Health Res.* 2018 Dec;28(6): 683-696.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481