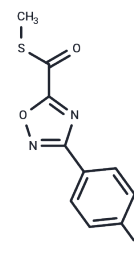


## AChE-IN-83

## Chemical Properties

CAS No. :	2828439-12-7
Formula:	C <sub>10</sub> H <sub>7</sub> ClN <sub>2</sub> O <sub>2</sub> S
Molecular Weight:	254.693
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	AChE-IN-83 (compound f1) is an AChE inhibitor that suppresses nematode growth and acetylcholinesterase activity in rice seeds while being safe for the seeds. It specifically targets <i>Aphelenchoides besseyi</i> , with an LC <sub>50</sub> of 19.0 µg/mL over 48 hours. AChE-IN-83 impedes nematode populations and behaviors in rice seeds, damages the nematode cuticle, and induces reactive oxygen species, lipofuscin, and lipid generation within the nematodes.
Targets(IC50)	Cholinesterase (ChE)

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.9263 mL	19.6317 mL	39.2634 mL
5 mM	0.7853 mL	3.9263 mL	7.8527 mL
10 mM	0.3926 mL	1.9632 mL	3.9263 mL
50 mM	0.0785 mL	0.3926 mL	0.7853 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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