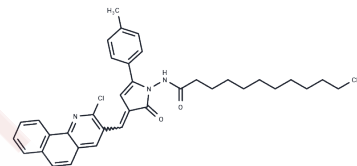


Insecticidal agent 21

Chemical Properties

CAS No. : 3082443-45-3
 Formula: C₃₇H₄₀ClN₃O₂
 Molecular Weight: 594.185
 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	Insecticidal agent 21 (Compound 6) is an insecticide targeting <i>Culex pipiens</i> larvae with an LC ₅₀ of 0.4 µg/mL. It achieves multi-target neurotoxicity by inhibiting acetylcholinesterase (AChE) and simultaneously targeting other neural receptors, including nicotinic acetylcholine receptors (nAChR), voltage-gated sodium channels (VGSC), and γ-aminobutyric acid receptors (GABAAR). Insecticidal agent 21 shows potent insecticidal activity and can be utilized in the development of new insecticides to combat mosquito resistance to conventional agents.
Targets(IC50)	Others,GABA Receptor,AChR,Cholinesterase (ChE),Sodium Channel

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.683 mL	8.4148 mL	16.8296 mL
5 mM	0.3366 mL	1.683 mL	3.3659 mL
10 mM	0.1683 mL	0.8415 mL	1.683 mL
50 mM	0.0337 mL	0.1683 mL	0.3366 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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