

## Product Datasheet

### Insecticidal agent 21 (orb3028428)

<b>Catalog Number</b>	orb3028428
<b>Category</b>	Small Molecules
<b>Description</b>	<p>Insecticidal agent 21 (Compound 6) is an insecticide targeting <i>Culex pipiens</i> larvae with an LC50 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.</p>
<b>Target</b>	Others,AChR,GABA Receptor,Sodium Channel,Cholinesterase (ChE)
<b>MW</b>	594.185
<b>CAS Number</b>	3082443-45-3
<b>Formula</b>	C <sub>37</sub> H <sub>40</sub> ClN <sub>3</sub> O <sub>2</sub>
<b>SMILES</b>	<chem>O=C1C(=CC=2C=C3C=CC=4C=CC=CC4C3=NC2Cl)C=C(C=5C=CC(=CC5)C)N1NC(=O)CCCCCCCCCCC</chem>
<b>Storage</b>	-20°C
<b>Note</b>	For research use only
<b>Expiration Date</b>	12 months from date of receipt.

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