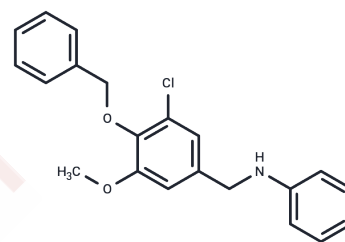


## V-ATPase-IN-1

## Chemical Properties

CAS No. :	1243603-61-3
Formula:	C <sub>21</sub> H <sub>20</sub> ClNO <sub>2</sub>
Molecular Weight:	353.84
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	V-ATPase-IN-1 (Compound 3b-03) is an inhibitor of Vacuolar-type H <sup>+</sup> -ATPases (V-ATPase), exhibiting an inhibition constant (IC <sub>50</sub> ) of 194.80 μM and effectively targeting the V-ATPase subunit A with a dissociation constant (K <sub>d</sub> ) of 0.803 μM. This compound demonstrates insecticidal activity against <i>M. separata</i> (LC <sub>50</sub> = 2.64 mM), aiding in the development of chemical insecticides.
Targets(IC <sub>50</sub> )	Proton pump

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8261 mL	14.1307 mL	28.2614 mL
5 mM	0.5652 mL	2.8261 mL	5.6523 mL
10 mM	0.2826 mL	1.4131 mL	2.8261 mL
50 mM	0.0565 mL	0.2826 mL	0.5652 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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