

VU0155056

## Chemical Properties

CAS No. : 1130067-18-3

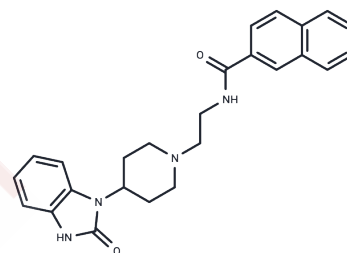
Formula: C<sub>25</sub>H<sub>26</sub>N<sub>4</sub>O<sub>2</sub>

Molecular Weight: 414.5

Store at low temperature

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	VU0155056 is a dual PLD1/2 inhibitor with IC <sub>50</sub> = 81 nM for PLD1 and IC <sub>50</sub> = 240 nM for PLD2 in in vitro assays, and IC <sub>50</sub> < 1 μM in cellular assays, which inhibits breast cancer cell invasion.
Targets(IC <sub>50</sub> )	Phospholipase
In vitro	VU0155056 was tested in HEK293, PC12, and human neutrophil models at concentrations ranging from 0.5 to 20 μM for 10 minutes to 24 hours. VU0155056 significantly reduced levels of phosphatidic acid (PA) and phosphatidylbutanol (PBut), indicating effective inhibition of PLD1 and PLD2 activity. [1]

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4125 mL	12.0627 mL	24.1255 mL
5 mM	0.4825 mL	2.4125 mL	4.8251 mL
10 mM	0.2413 mL	1.2063 mL	2.4125 mL
50 mM	0.0483 mL	0.2413 mL	0.4825 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

Rappley I, Gitler AD, Selvy PE, LaVoie MJ, Levy BD, Brown HA, Lindquist S, Selkoe DJ. Evidence that alpha-synuclein does not inhibit phospholipase D. *Biochemistry*. 2009 Feb 10;48(5):1077-83.

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