

VU 0364739 hydrochloride

Chemical Properties

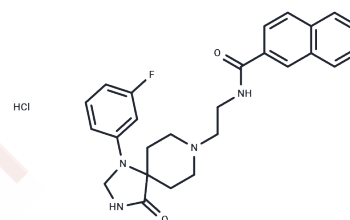
CAS No. : 1244640-48-9

Formula: C₂₆H₂₈ClFN₄O₂

Molecular Weight: 482.98

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	VU 0364739 hydrochloride (VU 0364739 HCl) is a selective and potent inhibitor of phospholipase D2 (PLD2) with IC ₅₀ s of 20 and 1500 nM for PLD2 and PLD1, respectively. VU 0364739 hydrochloride exhibits potential anticancer activity and induces apoptosis. VU 0364739 hydrochloride has potential anticancer activity, induces apoptosis, and can be used in the study of cancer and metabolic-related diseases.
Targets(IC ₅₀)	Apoptosis,Phospholipase
In vitro	MDA-MB-231 cells were cultured in the presence of VU 0364739 hydrochloride (1, 5, and 10 μM) for 24, 48, 72, and 96 hours, followed by determination of cell viability using the WST-1 cell proliferation reagent. The results indicate that VU 0364739 hydrochloride significantly reduces proliferation of MDA-MB-231 cells in a dose- and time-dependent manner[1].

Solubility Information

Solubility	DMSO: 10 mg/mL (20.7 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0705 mL	10.3524 mL	20.7048 mL
5 mM	0.4141 mL	2.0705 mL	4.141 mL
10 mM	0.207 mL	1.0352 mL	2.0705 mL
50 mM	0.0414 mL	0.207 mL	0.4141 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

Lavieri RR, et al. Design, synthesis, and biological evaluation of halogenated N-(2-(4-oxo-1-phenyl-1,3,8-triazaspiro[4.5]decan-8-yl)ethyl)benzamides: discovery of an isoform-selective small molecule phospholipase D2 inhibitor. J Med Chem. 2010 Sep 23;53(18):6706-19.

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