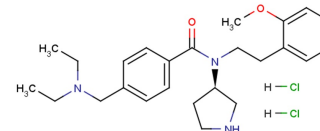


PF429242 dihydrochloride

## Chemical Properties

CAS No.:	2248666-66-0
Formula:	C <sub>25</sub> H <sub>37</sub> Cl <sub>2</sub> N <sub>3</sub> O <sub>2</sub>
Molecular Weight:	482.49
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



## Biological Description

Description	PF429242 dihydrochloride is a reversible and competitive inhibitor of S1P (IC <sub>50</sub> of 175 nM).
Targets(IC <sub>50</sub> )	S1P: 175 nM
In vitro	PF-429242(10 μM ) inhibits endogenous SREBP processing in Chinese hamster ovary cells. PF-429242 efficiently prevents the processing of GPC from the prototypic arenavirus lymphocytic choriomeningitis virus (LCMV) and LASV, which correlates with the compound's potent antiviral activity against LCMV and LASV in cultured cells[3].

## Solubility Information

Solubility	DMSO: 83.3 mg/mL (172.65 mM) ( < 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.073 mL	10.363 mL	20.726 mL
5 mM	0.415 mL	2.073 mL	4.145 mL
10 mM	0.207 mL	1.036 mL	2.073 mL
50 mM	0.041 mL	0.207 mL	0.415 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

### Reference

- Hawkins JL, et al. Pharmacologic inhibition of site 1 protease activity inhibits sterol regulatory element-binding protein processing and reduces lipogenic enzyme gene expression and lipid synthesis in cultured cells and experimental animals. *J Pharmacol Exp Ther*. 2008 Sep;326(3):801-8.
- Uchida L, et al. Suppressive Effects of the Site 1 Protease (S1P) Inhibitor, PF-429242, on Dengue Virus Propagation. *Viruses*. 2016 Feb 10;8(2). pii: E46. doi: 10.3390/v8020046.
- Urata S, et al. Antiviral activity of a small-molecule inhibitor of arenavirus glycoprotein processing by the cellular site 1 protease. *J Virol*. 2011 Jan;85(2):795-803.

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