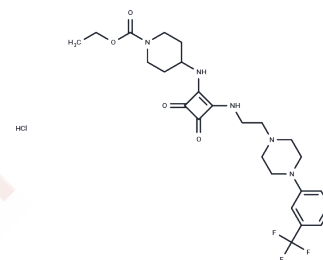


## Squarunkin A hydrochloride

## Chemical Properties

CAS No. :	2253744-55-5
Formula:	C <sub>25</sub> H <sub>33</sub> ClF <sub>3</sub> N <sub>5</sub> O <sub>4</sub>
Molecular Weight:	560.02
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	Squarunkin A hydrochloride is a potent and selective UNC119-cargo interaction inhibitor that inhibits the binding of a myristoylated peptide representing the N-terminus of Src kinase to UNC119A with an IC <sub>50</sub> value of 10 nm and interferes with the activation of Src kinase in cells [1].
Targets(IC <sub>50</sub> )	Others,Src
In vitro	Treatment with Squarunkin A at concentrations of 2.5 μM, 0.625 μM, 0.078 μM, and 0.01 μM leads to a concentration-dependent decrease in Src phosphorylation [1]. Unlike other lipoprotein chaperones, such as PDE6d, AIPL1, and RhoGDI, which attach to S-prenylated proteins, Squarunkin A does not interact with their lipoprotein-binding sites. Instead, it targets and binds to UNC119 within cell lysates, thereby disrupting Src activation [1].

## Solubility Information

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

	1mg	5mg	10mg
1 mM	1.7857 mL	8.9283 mL	17.8565 mL
5 mM	0.3571 mL	1.7857 mL	3.5713 mL
10 mM	0.1786 mL	0.8928 mL	1.7857 mL
50 mM	0.0357 mL	0.1786 mL	0.3571 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

Mejuch et al (2017) Small-molecule inhibition of the UNC119-cargo interaction. Angew.Chem.Int.Ed. 56 6181 PMID: 28471079

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