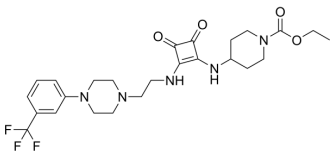
Squarunkin A

Cat. No.:	HY-127002
CAS No.:	2101958-02-3
Molecular Formula:	$C_{25}H_{32}F_3N_5O_4$
Molecular Weight:	523.55
Target:	Src
Pathway:	Protein Tyrosine Kinase/RTK
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 9.62 mg/mL (18.37 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	1.9100 mL	9.5502 mL	19.1004 mL
	5 mM	0.3820 mL	1.9100 mL	3.8201 mL
	10 mM	0.1910 mL	0.9550 mL	1.9100 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Squarunkin A is a potent and selective UNC119-cargo interaction inhibitor, interrupting the UNC119A-myristoylated Src N-terminal peptide interaction (IC_{50}=10 nM). Squarunkin A interferes with the activation of Src kinase in cells[1].

IC_{50} & Target

IC50: 10 nM (UNC119A-myristoylated Src N-terminal peptide interaction)[1]

In Vitro

Squarunkin A (2.5 μM, 0.625 μM, 0.078 μM, and 0.01 μM) treatment leads to a concentration-dependent reduction of Src phosphorylation[1].

Squarunkin A does not target the lipoprotein-binding sites of other lipoprotein chaperones, such as PDE6d, AIPL1, and RhoGDI, which bind S-prenylated proteins. Squarunkin A binds to UNC119 in cell lysate and interferes with Src activation[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Tom Mejuch, et al. Small-Molecule Inhibition of the UNC119-Cargo Interaction. Angew Chem Int Ed Engl. 2017 May 22;56(22):6181-6186.

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