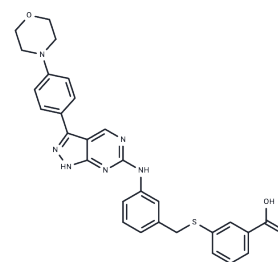


Myosin V-IN-1

Chemical Properties

CAS No. :	1259177-59-7
Formula:	C ₂₉ H ₂₆ N ₆ O ₃ S
Molecular Weight:	538.62
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Myosin V-IN-1 is a potent and selective inhibitor of Myosin V with a K_i value of 6 μ M. Myosin V-IN-1 inhibits actin V and slows down actin-activated myosin V ATPase by selectively inhibiting the release of ADP from the actinoglobulin complex.
Targets(IC ₅₀)	Myosin
In vitro	Myosin V-IN-1 (compound 8) displays a dose-dependent reduction in the rate of single-headed myosin V steady-state actin-activated ATP hydrolysis.[1]

Solubility Information

Solubility	DMSO: 90.0 mg/mL (167.1 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	1.8566 mL	9.283 mL	18.566 mL
5 mM	0.3713 mL	1.8566 mL	3.7132 mL
10 mM	0.1857 mL	0.9283 mL	1.8566 mL
50 mM	0.0371 mL	0.1857 mL	0.3713 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.

Reference

Maschi D, et al. Myosin V Regulates Spatial Localization of Different Forms of Neurotransmitter Release in Central Synapses. *Front Synaptic Neurosci.* 2021;13:650334.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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