# Myosin V-IN-1

Cat. No.: HY-152949 CAS No.: 1259177-59-7 Molecular Formula:  $C_{29}H_{26}N_6O_3S$ Molecular Weight: 538.62

Pathway: Cytoskeleton

Storage: Powder -20°C 3 years

Myosin

2 years

In solvent -80°C 6 months

> -20°C 1 month

**Product** Data Sheet

## **SOLVENT & SOLUBILITY**

In Vitro

Target:

DMSO: 100 mg/mL (185.66 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	1.8566 mL	9.2830 mL	18.5660 mL
	5 mM	0.3713 mL	1.8566 mL	3.7132 mL
	10 mM	0.1857 mL	0.9283 mL	1.8566 mL

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

# **BIOLOGICAL ACTIVITY**

Description Myosin V-IN-1 (compound 8) is a potent and selective Myosin V inhibitor, with a  $K_i$  of 6  $\mu$ M. Myosin V-IN-1 shows acute

inhibition of myosin V. Myosin V-IN-1 slows the actin-activated myosin V ATPase by specifically inhibiting ADP release from

the actomyosin complex[1][2].

Myosin V-IN-1 (compound 8) shows dose-dependent reduction of the rate of steady-state actin-activated ATP hydrolysis by In Vitro

single-headed myosin V<sup>[1]</sup>.

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

### **REFERENCES**

[1]. Maschi D, et al. Myosin V Regulates Spatial Localization of Different Forms of Neurotransmitter Release in Central Synapses. Front Synaptic Neurosci. 2021 Apr 15;13:650334.

[2]. Islam K, et al. A myosin V inhibitor based on privileged chemical scaffolds. Angew Chem Int Ed Engl. 2010 Nov 2;49(45):8484-8.

 $\label{lem:caution:Product} \textbf{Caution: Product has not been fully validated for medical applications. For research use only.}$ 

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