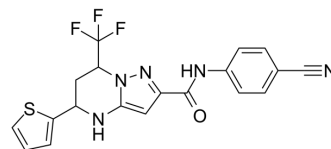


## H1PVAT

<b>Cat. No.:</b>	HY-12349		
<b>CAS No.:</b>	351438-49-8		
<b>Molecular Formula:</b>	C <sub>19</sub> H <sub>14</sub> F <sub>3</sub> N <sub>5</sub> OS		
<b>Molecular Weight:</b>	417.41		
<b>Target:</b>	Others		
<b>Pathway:</b>	Others		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



## BIOLOGICAL ACTIVITY

<b>Description</b>	H1PVAT is a potent and selective inhibitor of poliovirus serotypes (PV-1, PV-2, PV-3), and inhibits early stage of the replication. H1PVAT interacts with viral capsid directly and protects PV against heat inactivation <sup>[1][2]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	EC <sub>50</sub> : 10 nM (PV-1), 26 nM (PV-2), 218 nM (PV-3) <sup>[1]</sup>
<b>In Vitro</b>	<p>H1PVAT (10-218 nM; 24-48 h) inhibits poliovirus strain Sabin replication in a dose-dependent manner, with EC<sub>50</sub>s of 10 nM (PV-1), 26 nM (PV-2) and 218 nM (PV-3), respectively<sup>[1]</sup>.</p> <p>H1PVAT (30 min prior to or 1 h after PV-1 infection; 7 h) inhibits an early stage of viral replication, and only H1PVAT is administered prior to infection results reduction (&gt;99.9%) in intracellular viral RNA levels<sup>[1]</sup>.</p> <p>H1PVAT (50 μM; 2 min) protects PV against heat inactivation with the 50% thermal inactivation temperature increased to 52.6 °C and 50.8 °C, which suggests a direct interaction between the viral capsid and H1PVAT<sup>[1]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

## REFERENCES

- [1]. Tijisma A, et al. H1PVAT is a novel and potent early-stage inhibitor of poliovirus replication that targets VP1. *Antiviral Res.* 2014 Oct;110:1-9.
- [2]. Tijisma A. *Antiviral strategies against polio and other enteroviruses.* 2018.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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