

Product Data Sheet

Product Name: H1PVAT
Cat. No.: GC70547

Chemical Properties

Cas. No. 351438-49-8

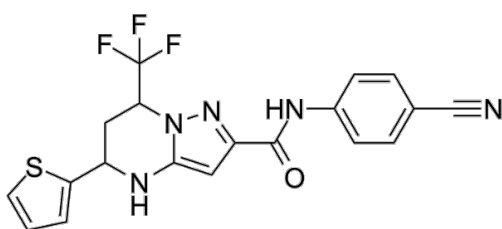
Formula $C_{19}H_{14}F_3N_5OS$ M.Wt 417.41

Solubility Storage $-20^{\circ}C$

General tips For obtaining a higher solubility, please warm the tube at $37^{\circ}C$ and shake it in the ultrasonic bath for a while. Stock solution can be stored below $-20^{\circ}C$ for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

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.

H1PVAT (10-218 nM; 24-48 h) inhibits poliovirus strain Sabin replication in a dose-dependent manner, with EC_{50} s of 10 nM (PV-1), 26 nM (PV-2) and 218 nM (PV-3), respectively [1].

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 (>99.9%) in intracellular viral

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

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RNA levels^[1].

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^[1].

References:

[1]. Tijsma 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]. Tijsma A. Antiviral strategies against polio and other enteroviruses. 2018.

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