

Pirodavir

Catalog No: tcsc1348



Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg



Specifications

CAS No:

124436-59-5

Formula:

$C_{21}H_{27}N_3O_3$

Pathway:

Anti-infection

Target:

Enterovirus

Purity / Grade:

>98%

Solubility:

10 mM in DMSO

Alternative Names:

R77975

Observed Molecular Weight:

369.46

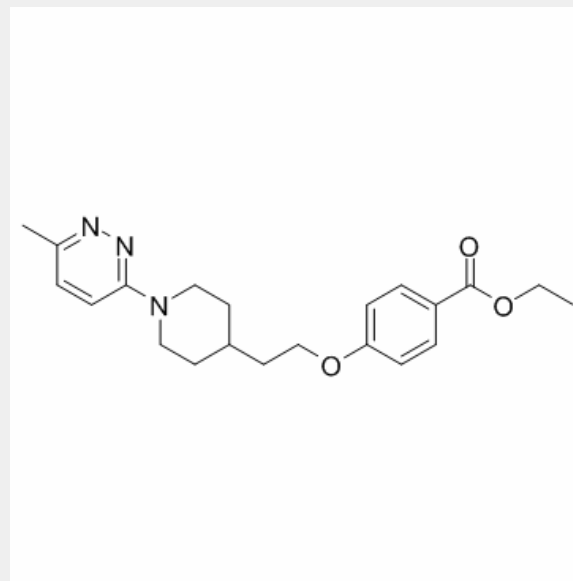
Product Description

Pirodavir is a potent, broad-spectrum picornavirus inhibitor, and is highly active against both group A and group B **rhinovirus** serotypes.

Pirodavir is very potent in a virus yield reduction assay ($IC_{90}=2.3$ nM).

IC50 & Target: Rhinovirus^[1]

In Vitro: Pirodavir is a potent, broad-spectrum picornavirus inhibitor. Pirodavir inhibits 80 of the 100 human rhinovirus (HRV) strains tested at a concentration of 64 ng/mL. In that same study, Pirodavir is also effective in inhibiting 16 enteroviruses, with a mean 80% inhibitory concentration (IC_{80}) of 1,300 ng/mL. Pirodavir inhibits enterovirus 71 replication with an IC_{50} of 5,420 nM and an IC_{90} of >13,350 nM. Pirodavir inhibits 56 rhinovirus laboratory strains and three of the clinical isolates tested. Pirodavir inhibits 59% of the serotypes and isolates with IC_{50} s of [1]. Pirodavir concentrations of 16 and 4 μ g/mL reduces cell growth by 66% (s.e.m. 0.75) and 28% (s.e.m. 0.25), respectively. Lower concentrations (1 μ g/mL) of Pirodavir are not inhibitory for cell growth. The 50% cytotoxic concentration of pirodavir for logarithmic cell growth at 37°C is 7 μ g/mL. Under the conditions of the antiviral assay (confluent HeLa cells at 33°C), the 50% cytotoxic concentration is >50 μ g/mL^[2].



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