Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

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

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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 4μg/mL reduces cell growth by 66% (s.e.m. 0.75) and 28% (s.e.m. 0.25), respectively. Lower concentrations (1μg/mL) of Pirodavir are not inhibitory for cell growth. The 50% cytotoxic concentration of pirodavir for logarithmic cell growth at 37°C is 7μg/mL. Under the conditions of the antiviral assay (confluent HeLa cells at 33°C), the 50% cytotoxic concentration is >50μg/mL[2].