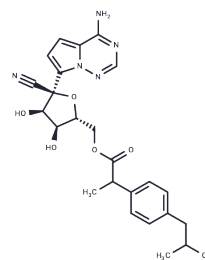


ATV041

## Chemical Properties

CAS No. :	2935937-67-8
Formula:	C <sub>25</sub> H <sub>29</sub> N <sub>5</sub> O <sub>5</sub>
Molecular Weight:	479.53
Storage:	Keep away from moisture Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	ATV041, an orally active compound that combines features of Ibuprofen and nucleotide analogues, enhances the oral pharmacokinetic (PK) profile and tissue distribution, exhibiting anti-mouse hepatitis virus (MHV) activity. The compound demonstrates a dose-dependent reduction in viral load, tissue damage, and virus-induced inflammation [1].
Targets(IC50)	Others,HSV
In vitro	The chemical compound ATV041 exhibits inhibitory activity against CCoV, FIPV, and TGEV with EC50 values of 1.406 μM, 7.34 μM, and 3.777 μM, respectively [1].
In vivo	ATV041 (200 mg/kg; oral; single dose) distributes extensively and rapidly throughout the plasma, liver, lungs, and kidney tissues [1]. When administered orally in single doses of 10, 50, and 200 mg/kg, ATV041 inhibits viral replication in the liver and lungs in a dose-dependent manner. Additionally, ATV041 decreases the expression of inflammatory cytokines TNF-α, IL-1β, IL-6, IFN-γ, and CXCL10, leading to amelioration of tissue damage [1].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0854 mL	10.4269 mL	20.8538 mL
5 mM	0.4171 mL	2.0854 mL	4.1708 mL
10 mM	0.2085 mL	1.0427 mL	2.0854 mL
50 mM	0.0417 mL	0.2085 mL	0.4171 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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