

Product Data Sheet

Product Name: ATV006
Cat. No.: GC65180

Chemical Properties

Cas. No. 2647441-36-7

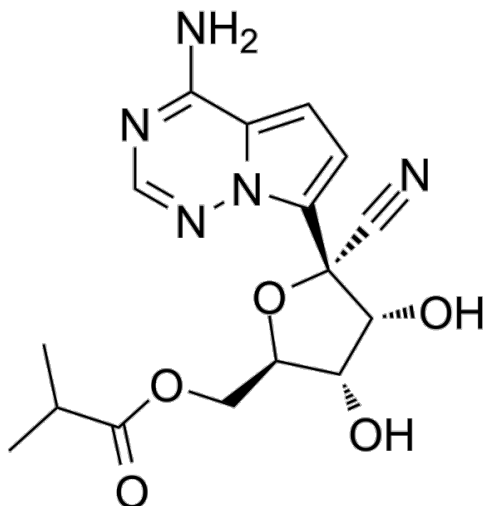
Formula C₁₆H₁₉N₅O₅ M.Wt 361.35

Solubility DMSO : 250 mg/mL (691.85 mM; Need ultrasonic) Storage 4°C, protect from light

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°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

ATV006 is a potent, orally active antiviral agent and ester prodrugs of GS-441524. ATV006 inhibits

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

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the replication of SARS-CoV-2 and its variants. ATV006 can be used for SARS-CoV-2 research[1].

ATV006 (0.001-100 μ M; 48 h; Vero E6 cells) inhibits the replication of authentic SARS-CoV-2 and its variants of concern. ATV006 has an overall >4-fold and >12-fold potency improvement in inhibiting the replication of Delta and Omicron variants, with EC50 values of 0.349 μ M and 0.106 μ M, respectively[1].

ATV006 (5-25 mg/kg; p.o. and i.v.; Sprague Dawley rats) has favorable pharmacokinetic profiles in rats with high oral bioavailability (F %) of 81.5% and maximum blood concentration (Cmax) of 8.2 μ M[1]. ATV006 (250-500 mg/kg; p.o.; daily, for 4 days; hACE2 knock-in and Ad5-hACE2 mice) has antiviral activity and inhibits SARS-CoV-2 replication in mouse models[1]. ATV006 (100-250 mg/kg; p.o.; daily, for 10 days) reduces lung damage and protects K18-hACE2 mice[1]. ATV006 (10-150 mg/kg; p.o.; daily, for 3 days) reduces virus titers and lung damage caused by Delta variant infection in K18-hACE2 mice[1].

[1]. Cao L, et, al. The adenosine analog prodrug ATV006 is orally bioavailable and has preclinical efficacy against parental SARS-CoV-2 and variants. Sci Transl Med. 2022 May 17:eabm7621.

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