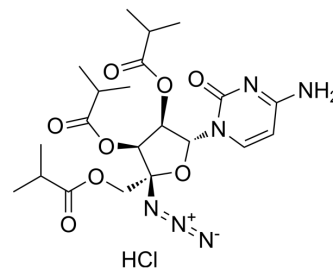


Balapiravir hydrochloride

Cat. No.:	HY-10443A
CAS No.:	690270-65-6
Molecular Formula:	C ₂₁ H ₃₁ ClN ₆ O ₈
Molecular Weight:	530.96
Target:	HCV; DNA/RNA Synthesis
Pathway:	Anti-infection; Cell Cycle/DNA Damage
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Balapiravir hydrochloride (Ro 4588161 hydrochloride; R1626 hydrochloride) is an orally active proagent of a nucleoside analogue inhibitor of the RNA-dependent RNA polymerase (RdRp) of HCV (R1479; 4'-Azidocytidine). Balapiravir hydrochloride has anti-HCV activity ^{[1][2][3]} . Balapiravir (hydrochloride) is a click chemistry reagent, it contains an Azide group and can undergo copper-catalyzed azide-alkyne cycloaddition reaction (CuAAC) with molecules containing Alkyne groups. Strain-promoted alkyne-azide cycloaddition (SPAAC) can also occur with molecules containing DBCO or BCN groups.
In Vitro	After oral dosing of the CD-1 mice with 28.1 mg/kg of balapiravir (Ro 4588161 hydrochloride; R1626 hydrochloride), R1479 reaches a C _{max} and a minimum concentration in plasma (C _{min}) of 24.38 μM and 6.34 μM, respectively, at 2 h and 24 h postdosing ^[3] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Antiviral Res. 2016 Sep;133:119-29.
- J Infect Dis. 2016 Sep 1;214(5):707-11.
- Antiviral Res. 2019 Oct;170:104570.

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REFERENCES

- [1]. Nguyen NM, et al. A randomized, double-blind placebo controlled trial of balapiravir, a polymerase inhibitor, in adult dengue patients. J Infect Dis. 2013 May 1;207(9):1442-1450.
- [2]. Nelson DR, et al. Balapiravir plus peginterferon alfa-2a (40KD)/ribavirin in a randomized trial of hepatitis C genotype 1 patients. Ann Hepatol. 2012 Jan-Feb;11(1):15-31.
- [3]. Yen-Liang Chen, et al. Activation of Peripheral Blood Mononuclear Cells by Dengue Virus Infection Depotentiates Balapiravir. J Virol. 2014 Feb;88(3):1740-7.

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

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