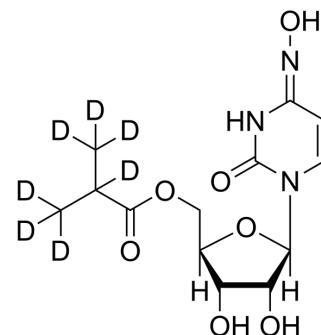


Molnupiravir-d₇

Cat. No.:	HY-135853S		
Molecular Formula:	C ₁₃ H ₁₂ D ₇ N ₃ O ₇		
Molecular Weight:	336.35		
Target:	SARS-CoV; Influenza Virus		
Pathway:	Anti-infection		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



BIOLOGICAL ACTIVITY

Description	Molnupiravir-d ₇ is the deuterium labeled Molnupiravir. Molnupiravir (EIDD-2801) is an orally bioavailable prodrug of the ribonucleoside analog EIDD-1931. Molnupiravir has broad spectrum antiviral activity against influenza virus and multiple coronaviruses, such as SARS-CoV-2, MERS-CoV, SARS-CoV. Molnupiravir has the potential for the research of COVID-19, and seasonal and pandemic influenza[1][2].
In Vitro	Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs ^[3] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Sheahan TP, et al. An orally bioavailable broad-spectrum antiviral inhibits SARS-CoV-2 in human airway epithelial cell cultures and multiple coronaviruses in mice. *Sci Transl Med.* 2020 Apr 6. pii: eabb5883.
- [2]. Toots M, et al. Characterization of orally efficacious influenza drug with high resistance barrier in ferrets and human airway epithelia. *Sci Transl Med.* 2019 Oct 23;11(515). pii: eaax5866.
- [3]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother.* 2019;53(2):211-216.

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

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