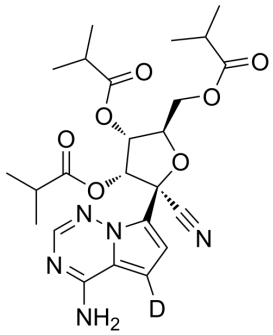
Mindeudesivir

Cat. No.:	HY-145119S
CAS No.:	2647442-33-7
Molecular Formula:	$C_{24}H_{30}DN_5O_7$
Molecular Weight:	502.54
Target:	Isotope-Labeled Compounds
Pathway:	Others
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (198.99 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	1.9899 mL	9.9495 mL	19.8989 mL
	5 mM	0.3980 mL	1.9899 mL	3.9798 mL
	10 mM	0.1990 mL	0.9949 mL	1.9899 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

GS-621763-d_1 is the deuterium labeled GS-621763 (HY-145119)[1]. GS-621763, an orally bioavailable proagent of GS-441524, shows antiviral activity against SARS-CoV-2 pathogenesis in mice[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[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019 Feb;53(2):211-216.

[2]. Schäfer A, et al. Therapeutic efficacy of an oral nucleoside analog of remdesivir against SARS-CoV-2 pathogenesis in mice. bioRxiv [Preprint]. 2021 Sep 17:2021.09.13.460111.

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

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