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Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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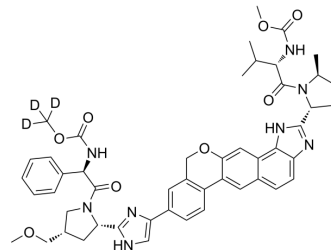
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Velpatasvir-d₃

Cat. No.:	HY-12530S1
Molecular Formula:	C ₄₉ H ₅₁ D ₃ N ₈ O ₈
Molecular Weight:	886.02
Target:	Isotope-Labeled Compounds; SARS-CoV; HCV
Pathway:	Others; Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Velpatasvir-d₃ (GS-5816-d₃) is deuterium labeled Velpatasvir. Velpatasvir (VEL, GS-5816) is a novel pan-genotypic hepatitis C virus (HCV) nonstructural protein 5A (NS5A) inhibitor with activity against genotype 1 (GT1) to GT6 HCV replicons. Velpatasvir is also a SARS-CoV 3CL^{pro} inhibitor with an IC₅₀ of 2.16 μM^{[1][2][3]}.

REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019 Feb;53(2):211-216.
- [2]. Yasmeen S, et al. An insight into the hepatoprotective role of Velpatasvir and Sofosbuvir per se and in combination against carbon tetrachloride-induced hepatic fibrosis in rats. *Environ Sci Pollut Res Int*. 2023 Sep;30(42):95660-95672.
- [3]. Lawitz EJ et al. Clinical Resistance to Velpatasvir (GS-5816), a Novel Pan-Genotypic Inhibitor of the Hepatitis C Virus NS5A Protein. *Antimicrob Agents Chemother*. 2016 Aug 22;60(9):5368-78.
- [4]. Qi Sun, et al. Bardoxolone and bardoxolone methyl, two Nrf2 activators in clinical trials, inhibit SARS-CoV-2 replication and its 3C-like protease. *Signal Transduct Target Ther*. 2021 May 29;6(1):212.

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

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