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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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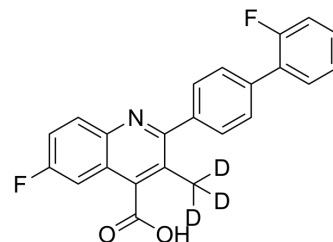
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Brequinar-d₃

Cat. No.:	HY-108325S
Molecular Formula:	C ₂₃ H ₁₂ D ₃ F ₂ NO ₂
Molecular Weight:	378.39
Target:	Isotope-Labeled Compounds; Virus Protease; Dihydroorotate Dehydrogenase; DNA/RNA Synthesis; SARS-CoV
Pathway:	Others; Anti-infection; Metabolic Enzyme/Protease; Cell Cycle/DNA Damage
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Brequinar-d₃ (DUP785-d₃) is deuterium labeled Brequinar. Brequinar (DUP785) is a potent inhibitor of dihydroorotate dehydrogenase (DHODH) with an IC₅₀ of 5.2 nM for human DHODH. Brequinar has potent activities against a broad spectrum of viruses. Brequinar also has an anti-SARS2 activity^[1].

REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019 Feb;53(2):211-216.
- [2]. Schnellrath LC, et al. Potent antiviral activity of brequinar against the emerging Cantagalo virus in cell culture. *Int J Antimicrob Agents*. 2011 Nov;38(5):435-41.
- [3]. Qing M, et al. Characterization of dengue virus resistance to brequinar in cell culture. *Antimicrob Agents Chemother*. 2010 Sep;54(9):3686-95.
- [4]. Xu X, et al. In vitro and in vivo mechanisms of action of the antiproliferative and immunosuppressive agent, brequinar sodium. *J Immunol*. 1998 Jan 15;160(2):846-53.
- [5]. Zeping Zuo, et al. Bifunctional Naphtho[2,3-d][1,2,3]triazole-4,9-dione Compounds Exhibit Antitumor Effects In Vitro and In Vivo by Inhibiting Dihydroorotate Dehydrogenase and Inducing Reactive Oxygen Species Production. *J Med Chem*. 2020 Jun 4.
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Caution: Product has not been fully validated for medical applications. For research use only.

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