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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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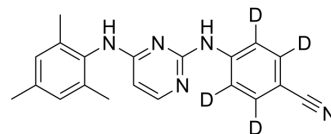
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Dapivirine-d₄

Cat. No.:	HY-14266S1
CAS No.:	1309283-15-5
Molecular Formula:	C ₂₀ H ₁₅ D ₄ N ₅
Molecular Weight:	333.42
Target:	Isotope-Labeled Compounds; Apoptosis; Reverse Transcriptase; Autophagy; HIV
Pathway:	Others; Apoptosis; Anti-infection; Autophagy
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Dapivirine-d₄ (TMC120-d₄) is deuterium labeled Dapivirine. Dapivirine (TMC120), the prototype of diarylpyrimidines (DAPY), is an orally active and nonnucleoside reverse transcriptase inhibitor (NRTI). Dapivirine (TMC120) binds directly to HIV-1 reverse transcriptase. Dapivirine (TMC120) regulates autophagy and induced Akt, Bad and SAPK/JNK activations^{[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]. Weiwen Liu, et al. Antitumor Activity and Mechanism of a Reverse Transcriptase Inhibitor, Dapivirine, in Glioblastoma. *J Cancer*. 2018 Jan 1;9(1):117-128.
- [3]. Bríd Devlin, et al. Development of dapivirine vaginal ring for HIV prevention. *Antiviral Res*. 2013 Dec;100 Suppl:S3-8.
- [4]. Yven Van Herrewege, et al. In vitro evaluation of nonnucleoside reverse transcriptase inhibitors UC-781 and TMC120-R147681 as human immunodeficiency virus microbicides. *Antimicrob Agents Chemother*. 2004 Jan;48(1):337-9.
- [5]. Michael E Halwes, et al. Pharmacokinetic modeling of a gel-delivered dapivirine microbicide in humans. *Eur J Pharm Sci*. 2016 Oct 10;93:410-8.

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

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