

1-Docosanol-d45

Cat. No.:	HY-B0222S
Molecular Formula:	C ₂₂ HD ₄₅ O
Molecular Weight:	371.88
Target:	HSV
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

1-Docosanol-d45 is the deuterium labeled 1-Docosanol. 1-Docosanol is a saturated fatty alcohol used traditionally as an emollient, emulsifier, and thickener in cosmetics, and nutritional supplement. 1-Docosanol is an inhibitor of lipid-enveloped viruses including herpes simplex.

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;53(2):211-216.
- [2]. Katz DH, et al. Antiviral activity of 1-docosanol, an inhibitor of lipid-enveloped viruses including herpes simplex. *Proc Natl Acad Sci U S A.* 1991 Dec 1;88(23):10825-9.
- [3]. Sacks SL, et al. Clinical efficacy of topical docosanol 10% cream for herpes simplex labialis: A multicenter, randomized, placebo-controlled trial. *J Am Acad Dermatol.* 2001 Aug;45(2):222-30.

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

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