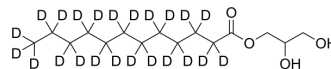


Monolaurin-d₂₃

Cat. No.:	HY-121620S
Molecular Formula:	C ₁₅ H ₇ D ₂₃ O ₄
Molecular Weight:	297.54
Target:	Bacterial; SARS-CoV
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Monolaurin-d ₂₃ is the deuterium labeled Monolaurin[1]. Monolaurin (1-Monolaurin) possesses anti-viral and anti-bacterial activity[2][3].
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]. Harry G Preuss, et al. Minimum inhibitory concentrations of herbal essential oils and monolaurin for gram-positive and gram-negative bacteria. *Mol Cell Biochem*. 2005 Apr;272(1-2):29-34.
- [3]. Edy Subroto, et al. Bioactive monolaurin as an antimicrobial and its potential to improve the immune system and against COVID-19: a review. *Food Research* 4(6):2355-2365.

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

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