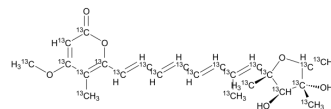


Citreoviridin-¹³C₂₃

Cat. No.:	HY-N6745S
Molecular Formula:	¹³ C ₂₃ H ₃₀ O ₆
Molecular Weight:	425.31
Target:	Na ⁺ /K ⁺ ATPase; Apoptosis; Isotope-Labeled Compounds
Pathway:	Membrane Transporter/Ion Channel; Apoptosis; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Citreoviridin- ¹³ C ₂₃ is ¹³ C labeled 2,3-Pentanedione (HY-W012998). 2,3-Pentanedione is a common constituent of synthetic flavorings and is used to impart a butter, strawberry, caramel, fruit, rum, or cheese flavor in beverages, ice cream, candy, baked goods, gelatins, and puddings. 2,3-Pentanedione also occurs naturally as a fermentation product in beer, wine, and yogurt and is released during roasting of coffee beans ^[1] .
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]. Datta SC, et al. Effect of citreoviridin, a mycotoxin from *Penicillium citreoviride*, on kinetic constants of acetylcholinesterase and ATPase in synaptosomes and microsomes from rat brain. *Toxicol.* 1981;19(4):555-62.
- [2]. Hou H, et al. Citreoviridin inhibits cell proliferation and enhances apoptosis of human umbilical vein endothelial cells. *Environ Toxicol Pharmacol.* 2014 Mar;37(2):828-36.
- [3]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother.* 2019 Feb;53(2):211-216.

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

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