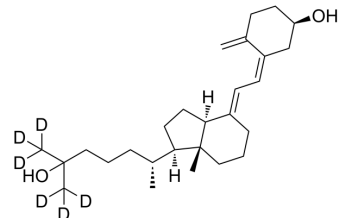


3-epi-25-Hydroxy Vitamin D3-d6

Cat. No.:	HY-142140S
CAS No.:	2483831-27-0
Molecular Formula:	C ₂₇ H ₃₈ D ₆ O ₂
Molecular Weight:	406.67
Target:	Isotope-Labeled Compounds
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	3-epi-25-Hydroxy Vitamin D3-d ₆ is the deuterium labeled 3-epi-25-Hydroxy Vitamin D3 (HY-142140) ^[1] . 3-epi-25-Hydroxy Vitamin D3 is the vitamin D metabolite, while vitamin D metabolism highly dependent on macrophage polarization. The C3-epimerase pathway for vitamin D is active in macrophages ^[2] .
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]. Nygaard RH, et al'. Metabolism of 25-Hydroxy-Vitamin D in Human Macrophages Is Highly Dependent on Macrophage Polarization. *Int J Mol Sci.* 2022 Sep 19;23(18):10943.

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

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