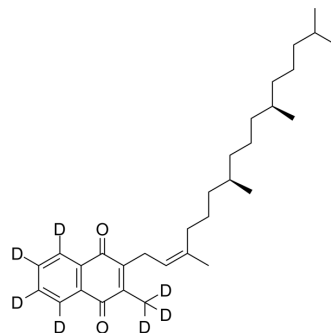


cis-Vitamin K1-d7

Cat. No.:	HY-N0684AS
Molecular Formula:	C ₃₁ H ₃₉ D ₇ O ₂
Molecular Weight:	457.74
Target:	Endogenous Metabolite; Isotope-Labeled Compounds
Pathway:	Metabolic Enzyme/Protease; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	cis-Vitamin K1-d7 is the deuterium labeled cis-Vitamin K1, is an endogenous metabolite of Vitamin K ^{[1][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;53(2):211-216.
- [2]. Yang J. Rapid separation of vitamin K1 isomers and vitamin K2 in dietary supplements using UltraPerformance Convergence Chromatography with a C18 column[J]. Waters Corporation, 2014.

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

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