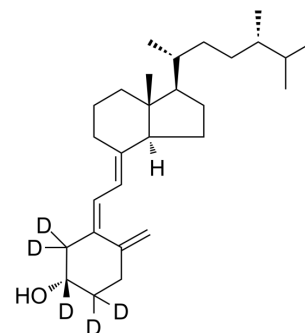


Vitamin D4-d5

Cat. No.:	HY-75958S1
Molecular Formula:	C ₂₈ H ₄₁ D ₅ O
Molecular Weight:	403.7
Target:	VD/VDR
Pathway:	Vitamin D Related
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Vitamin D4-d5 (22-Dihydroergocalciferol-d5) is the deuterium labeled Vitamin D4. Vitamin D4 (22-Dihydroergocalciferol) is a Vitamin D derived from fungi. The precursor of Vitamin D4 is 22,23-dihydroergosterol ^[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]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019;53(2):211-216.
- [2]. Katherine M Phillips, et al. Vitamin D4 in mushrooms. *PLoS One*. 2012;7(8):e40702.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA