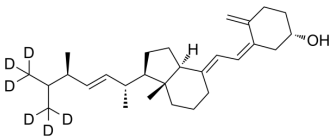
Vitamin D2-d6

Cat. No.:	HY-76542S
CAS No.:	1311259-89-8
Molecular Formula:	$C_{28}H_{38}D_6O$
Molecular Weight:	402.69
Target:	VD/VDR; Endogenous Metabolite
Pathway:	Vitamin D Related; Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Vitamin D2-d6 (Ergocalciferol-d6) is the deuterium labeled Vitamin D2. Vitamin D2 (Ergocalciferol), drived from plant sources or dietary supplements, could be used as supplement of Vitamin D[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]. Sagar U Nigwekar, et al. Ergocalciferol and cholecalciferol in CKD. Am J Kidney Dis. 2012 Jul;60(1):139-56.

[3]. R Gagnemo-Persson, et al. Chicken parathyroid hormone gene expression in response to gastrin, omeprazole, ergocalciferol, and restricted food intake. Calcif Tissue Int. 1997 Sep;61(3):210-5.

[4]. F Ariyuki, et al. Growth retardation induced in rat fetuses by maternal fasting and massive doses of ergocalciferol. J Nutr. 1987 Feb;117(2):342-8.

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