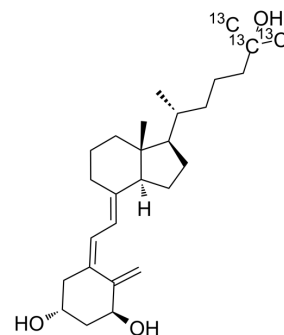


Calcitriol-13C3

Cat. No.:	HY-10002S
Molecular Formula:	$C_{24}^{13}C_3H_{38}O_3$
Molecular Weight:	413.57
Target:	Sodium Channel
Pathway:	Membrane Transporter/Ion Channel
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Calcitriol-13C3 (1,25-Dihydroxyvitamin D3-13C3) is the 13C-labeled Calcitriol. Calcitriol is the most active metabolite of vitamin D and also a vitamin D receptor (VDR) agonist.
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]. Zhang XF, et al. A-887826 is a structurally novel, potent and voltage-dependent Na(v)1.8 sodium channel blocker that attenuates neuropathic tactile allodynia in rats. *Neuropharmacology.* 2010 Sep;59(3):201-7.

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

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