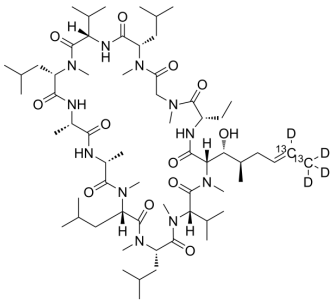
Cyclosporin A-$^{13}C_2$,d_4

Cat. No.:	HY-B0579S3
Molecular Formula:	$C_{60}{}^{13}C_2H_{107}D_4N_{11}O_{12}$
Molecular Weight:	1208.62
Target:	Isotope-Labeled Compounds; Calcineurin
Pathway:	Others; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Cyclosporin A-$^{13}C_2$,d_4 (Cyclosporine A-$^{13}C_2$,d_4; Ciclosporin A-$^{13}C_2$,d_4) is a ^{13}C labeled Cyclosporin A (HY-B0579)[1]. Cyclosporin A (Cyclosporine A) is an immunosuppressant which binds to the cyclophilin and inhibits phosphatase activity of protein phosphatase 2B (PP2B/calcineurin) with an IC_{50} of 5 nM[2]. Cyclosporin A also inhibits CD11a/CD18 adhesion[3].
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):211-246.

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