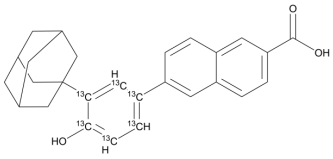
CD437-$^{13}C_6$

Cat. No.:	HY-100532S
Molecular Formula:	$C_{21}{}^{13}C_6H_{26}O_3$
Molecular Weight:	404.45
Target:	RAR/RXR; Autophagy; Isotope-Labeled Compounds
Pathway:	Metabolic Enzyme/Protease; Vitamin D Related/Nuclear Receptor; Autophagy; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	CD437-$^{13}C_6$ is the ^{13}C- and deuterium labeled CD437. CD437 is a selective Retinoic Acid Receptor γ (RARγ) 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[30]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Li Y, et al. Molecular determinants of AHPN (CD437)-induced growth arrest and apoptosis in human lung cancer cell lines. Mol Cell Biol. 1998 Aug;18(8):4719-31.

[2]. Schadendorf D, et al. Treatment of melanoma cells with the synthetic retinoid CD437 induces apoptosis via activation of AP-1 in vitro, and causes growth inhibition in xenografts in vivo. J Cell Biol. 1996 Dec;135(6 Pt 2):1889-98.

[3]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019;53(2):211-223.

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