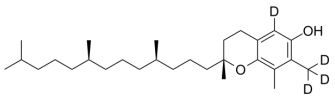
γ-Tocopherol-d_4

Cat. No.:	HY-N7148S1
CAS No.:	1329652-13-2
Molecular Formula:	$C_{28}H_{44}D_4O_2$
Molecular Weight:	420.7
Target:	COX
Pathway:	Immunology/Inflammation
Storage:	Powder -20°C 3 years In solvent -80°C 6 months -20°C 1 month



BIOLOGICAL ACTIVITY

Description	γ-Tocopherol-d_4 is the deuterium labeled γ-Tocopherol. γ-Tocopherol (D-γ-Tocopherol) is a potent cyclooxygenase (COX) inhibitor. γ-Tocopherol is a naturally occurring form of Vitamin E in many plant seeds, such as corn oil and soybeans. γ-Tocopherol possesses antiinflammatory properties and anti-cancer activity[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]. Q Jiang, et al. Gamma-Tocopherol, the Major Form of Vitamin E in the US Diet, Deserves More Attention. Am J Clin Nutr. 2001 Dec;74(6):714-22.

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