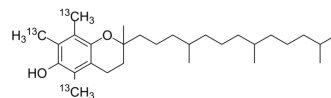


DL-alpha-Tocopherol-13C3

Cat. No.:	HY-W020044S
Molecular Formula:	C ₂₆ ¹³ C ₃ H ₅₀ O ₂
Molecular Weight:	433.68
Target:	Ferroptosis
Pathway:	Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	DL-alpha-Tocopherol-13C3 is the 13C-labeled DL-alpha-Tocopherol. DL-alpha-Tocopherol is a synthetic vitamin E, with antioxidation effect. DL-alpha-Tocopherol protects human skin fibroblasts against the cytotoxic effect of UVB ^[1] .
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]. Kondo S, et al. Protective effect of dl-alpha-tocopherol on the cytotoxicity of ultraviolet B against human skin fibroblasts in vitro. *Photodermatol Photoimmunol Photomed*. 1990 Aug;7(4):173-7.

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

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