Coenzyme Q10-d₆

CompoundsPathway:Apoptosis; Metabolic Enzyme/Protease; Immunology/Inflammation; NF-κB; OthersStorage:Please store the product under the recommended conditions in the Certificate of	Cat. No.: CAS No.: Molecular Formula: Molecular Weight: Target:	HY-N0111S 110971-02-3 C ₅₉ H ₈₄ D ₆ O ₄ 869.38 Ferroptosis; Endogenous Metabolite; Reactive Oxygen Species; Isotope-Labeled	۲۰۰٫۰۰٫۰۰٫۰۰٫۰۰٫۰۰٫۰۰٫۰۰٫۰۰٫۰۰٫۰۰٫۰۰٬۰۰٬۰
Analysis.	,	Apoptosis; Metabolic Enzyme/Protease; Immunology/Inflammation; NF-κB; Others Please store the product under the recommended conditions in the Certificate of	

BIOLOGICAL ACTIVITY	
Description	Coenzyme Q10-d ₆ is deuterium labeled Coenzyme Q10. Coenzyme Q10 is an essential cofactor of the electron transport chain and a potent antioxidant agent.
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]. Bhagavan HN, et al. Coenzyme Q10: absorption, tissue uptake, metabolism and pharmacokinetics. Free Radic Res. 2006 May;40(5):445-53.

[3]. Matthews RT, et al. Coenzyme Q10 administration increases brain mitochondrial concentrations and exerts neuroprotective effects. Proc Natl Acad Sci U S A. 1998 Jul 21:95(15):8892-7.

[4]. Yang YK, et al. Coenzyme Q10 treatment of cardiovascular disorders of ageing including heart failure, hypertension and endothelial dysfunction. Clin Chim Acta. 2015 Oct 23;450:83-9.

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

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Product Data Sheet

