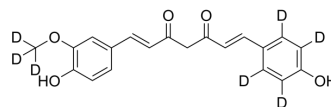


Demethoxycurcumin-d₇

Cat. No.:	HY-N0006S
CAS No.:	2470243-19-5
Molecular Formula:	C ₂₀ H ₁₁ D ₇ O ₅
Molecular Weight:	345.4
Target:	Apoptosis; Autophagy; Bacterial; Isotope-Labeled Compounds
Pathway:	Apoptosis; Autophagy; Anti-infection; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Demethoxycurcumin-d ₇ is the deuterium labeled Demethoxycurcumin. Demethoxycurcumin (Curcumin II), a major active curcuminoid, possess anti-inflammatory properties; also exert cytotoxic effects in human cancer cells via induction of apoptosis.
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]. Somchit M, et al. Demethoxycurcumin from *Curcuma longa* rhizome suppresses iNOS induction in an in vitro inflamed human intestinal mucosa model. *Asian Pac J Cancer Prev.* 2014;15(4):1807-10.
- [3]. Wang X, et al. Effects of curcuminoids identified in rhizomes of *Curcuma longa* on BACE-1 inhibitory and behavioral activity and lifespan of Alzheimer's disease *Drosophila* models. *BMC Complement Altern Med.* 2014 Mar 5;14:88.
- [4]. Ko YC, et al. Demethoxycurcumin Alters Gene Expression Associated with DNA Damage, Cell Cycle and Apoptosis in Human Lung Cancer NCI-H460 Cells In Vitro. *In Vivo.* 2015 01-02;29(1):83-94.

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

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