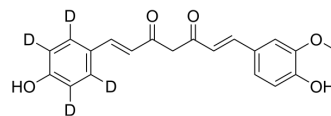


## Demethoxycurcumin-d<sub>4</sub>

<b>Cat. No.:</b>	HY-N0006S1		
<b>Molecular Formula:</b>	C <sub>20</sub> H <sub>14</sub> D <sub>4</sub> O <sub>5</sub>		
<b>Molecular Weight:</b>	342.38		
<b>Target:</b>	Apoptosis; Autophagy; Bacterial		
<b>Pathway:</b>	Apoptosis; Autophagy; Anti-infection		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### BIOLOGICAL ACTIVITY

<b>Description</b>	Demethoxycurcumin-d <sub>4</sub> is the deuterium labeled Demethoxycurcumin. Demethoxycurcumin (Curcumin II) is a major active curcuminoid; possess anti-inflammatory properties[1].
<b>In Vitro</b>	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[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

- [1]. 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.
- [2]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother.* 2019;53(2):211-223.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA