## Enterolactone-d<sub>6</sub>

Cat. No.:	HY-1086925	5			
CAS No.:	104411-11-2				
Molecular Formula:	C <sub>18</sub> H <sub>12</sub> D <sub>6</sub> O <sub>4</sub>				
Molecular Weight:	304.37				
Target:	Apoptosis; Endogenous Metabolite; Isotope-Labeled Compounds				
Pathway:	Apoptosis; Metabolic Enzyme/Protease; Others				
Storage:	Powder	-20°C	3 years		
		4°C	2 years		
	In solvent	-80°C	6 months		
		-20°C	1 month		

## SOLVENT & SOLUBILITY

		Solvent Mass Concentration	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	3.2855 mL	16.4274 mL	32.8548 mL	
	5 mM	0.6571 mL	3.2855 mL	6.5710 mL	
		10 mM	0.3285 mL	1.6427 mL	3.2855 mL

BIOLOGICAL ACTIVITY				
Description	Enterolactone-d <sub>6</sub> is the deuterium labeled Enterolactone. Enterolactone is a bioactive phenolic metabolite known as a mammalian lignan derived from dietary lignans. Enterolactone has estrogenic properties and anti-breast cancer activity[1]. Enterolactone is a radiosensitizer for human breast cancer cell lines through impaired DNA repair and increased apoptosis[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 <sup>[1]</sup> . 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.

n

οD

OH

D

[2]. Bigdeli B, et al. Enterolactone: A novel radiosensitizer for human breast cancer cell lines through impaired DNA repair and increased apoptosis. Toxicol Appl Pharmacol. 2016;313:180-194.

[3]. Mali AV, et al. Enterolactone modulates the ERK/NF-κB/Snail signaling pathway in triple-negative breast cancer cell line MDA-MB-231 to revert the TGF-β-induced epithelial-mesenchymal transition. Cancer Biol Med. 2018;15(2):137-156.

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

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