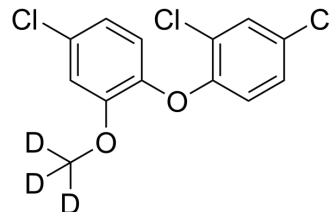


## Triclosan-methyl-d<sub>3</sub>

Cat. No.:	HY-136441S		
CAS No.:	1020720-00-6		
Molecular Formula:	C <sub>13</sub> H <sub>6</sub> D <sub>3</sub> Cl <sub>3</sub> O <sub>2</sub>		
Molecular Weight:	306.59		
Target:	Bacterial		
Pathway:	Anti-infection		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



### BIOLOGICAL ACTIVITY

#### Description

Triclosan-methyl-d<sub>3</sub> is the deuterium labeled Triclosan-methyl. Triclosan-methyl is a transformation product of triclosan. Triclosan is a bactericide in personal care products such as toothpaste, shampoos, and soaps. Triclosan is also a stabilizing agent in a multitude of detergents and cosmetics[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<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.
- [2]. Xijuan Chen, et al. Biodegradation of triclosan and formation of methyl-triclosan in activated sludge under aerobic conditions. *Chemosphere.* 2011 Jul;84(4):452-6.

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

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