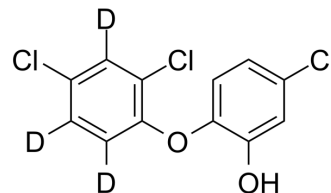


## Triclosan-d<sub>3</sub>

Cat. No.:	HY-B1119S		
CAS No.:	1020719-98-5		
Molecular Formula:	C <sub>12</sub> H <sub>4</sub> D <sub>3</sub> Cl <sub>3</sub> O <sub>2</sub>		
Molecular Weight:	292.56		
Target:	Bacterial; Fungal; Autophagy; Antibiotic		
Pathway:	Anti-infection; Autophagy		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### BIOLOGICAL ACTIVITY

<b>Description</b>	Triclosan-d <sub>3</sub> is the deuterium labeled Triclosan. Triclosan is an antibacterial and antifungal agent found in consumer products, including soaps, detergents, toys, and surgical cleaning treatments[1][2].
<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 <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]. Weatherly LM, et al. Triclosan exposure, transformation, and human health effects. *J Toxicol Environ Health B Crit Rev.* 2017;20(8):447-469.
- [3]. Ley C, et al. Triclosan and triclocarban exposure and thyroid function during pregnancy-A randomized intervention. *Reprod Toxicol.* 2017 Dec;74:143-149.

**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