Triclocarban-d₄

MedChemExpress

Cat. No.:	HY-B1805S				
CAS No.:	1219799-29-7				
Molecular Formula:	$C_{13}H_5D_4Cl_3N_2O$				
Molecular Weight:	319.61				
Target:	Bacterial				
Pathway:	Anti-infection				
Storage:	Powder	-20°C	3 years		
		4°C	2 years		
	In solvent	-80°C	6 months		
		-20°C	1 month		

®

SOLVENT & SOLUBILITY

Preparing Stock Solutions	Concentration			
	1 mM	3.1288 mL	15.6441 mL	31.2881 mL
	5 mM	0.6258 mL	3.1288 mL	6.2576 mL
	10 mM	0.3129 mL	1.5644 mL	3.1288 mL
	ock Solutions	ock Solutions 5 mM	Imm 3.1288 ML Sock Solutions 5 mM 0.6258 mL 10 mM 0.3129 mL	I mm 3.1288 mL 15.6441 mL Sock Solutions 5 mM 0.6258 mL 3.1288 mL

BIOLOGICAL ACTIVITY			
DIOLOGICALACITY			
Description	Triclocarban-d ₄ is the deuterium labeled Triclocarban. Triclocarban (3,4,4'-Trichlorocarbanilide), a broad spectrum antibacterial compound, is widely used in a broad range of applications such as the production of soaps, skin creams, toothpastes and deodorants. Triclocarban is a potential endocrine-disrupting chemical with the capacity to modulate androgen and estrogen activities as well as other hormone-mediated biological processes[1][2][3].		
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.		

Product Data Sheet

D

b

N

CI

D

CI

CI

REFERENCES

[1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019;53(2):211-216.

[2]. Kanbara Y, et al. Nanomolar concentration of triclocarban increases the vulnerability of rat thymocytes to oxidative stress. J Toxicol Sci. 2013 Feb;38(1):49-55.

[3]. Huang H, et al. The invitro estrogenic activities of triclosan and triclocarban. J Appl Toxicol. 2014 Sep;34(9):1060-7.

[4]. Kennedy RC, et al. Early life triclocarban exposure during lactation affects neonate rat survival. Reprod Sci. 2015 Jan;22(1):75-89.

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

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