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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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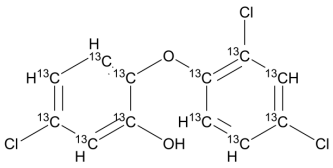
Triclosan-$^{13}C_{12}$

Cat. No.:	HY-W747491
CAS No.:	1365620-36-5
Molecular Formula:	$^{13}C_{12}H_7Cl_3O_2$
Molecular Weight:	301.45
Target:	Isotope-Labeled Compounds; Antibiotic; Apoptosis; Bacterial; Fungal
Pathway:	Others; Anti-infection; Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Triclosan-$^{13}C_{12}$ is ^{13}C labeled Triclosan. Triclosan is a broad-spectrum antibacterial agent that inhibits bacterial fatty acid synthesis at the enoyl-acyl carrier protein reductase (FabI) step. Triclosan inhibits E. coli enoyl-acyl carrier protein reductase (FabI) and FabI containing a glycine-to-valine substitution at position 93 (FabIG93V) with IC_{50}s of 2 μM and 10 μM, respectively. Triclosan causes apoptotic effect in cultured rat neural stem cells (NSC). Triclosan exacerbates colitis and colitis-associated colorectal tumorigenesis in animal models[1][2][3][4].

REFERENCES

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

[2]. Jianan Zhang, et al. Microbial enzymes induce colitis by reactivating triclosan in the mouse gastrointestinal tract. Nat Commun. 2022 Jan 10;13(1):136.

[3]. R J Heath, et al. Mechanism of triclosan inhibition of bacterial fatty acid synthesis. J Biol Chem. 1999 Apr 16;274(16):11110-4.

[4]. Bo Kyung Park, et al. Effects of Triclosan on Neural Stem Cell Viability and Survival. Biomol Ther (Seoul). 2016 Jan;24(1):99-107.

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