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Produktinformation



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Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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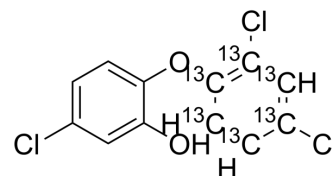
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Triclosan-¹³C₆

Cat. No.:	HY-W653962
CAS No.:	2726926-25-4
Molecular Formula:	C ₆ ¹³ C ₆ H ₇ Cl ₃ O ₂
Molecular Weight:	295.5
Target:	Isotope-Labeled Compounds; Apoptosis; Antibiotic; Fungal; Bacterial
Pathway:	Others; Apoptosis; Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Triclosan-¹³C₆ is ¹³C 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 IC₅₀s 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.

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

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