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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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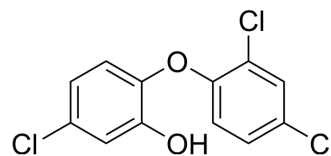
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Triclosan (Standard)

Cat. No.:	HY-B1119R
CAS No.:	3380-34-5
Molecular Formula:	C ₁₂ H ₇ Cl ₃ O ₂
Molecular Weight:	289.54
Target:	Apoptosis; Bacterial; Fungal; Antibiotic
Pathway:	Apoptosis; Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Triclosan (Standard) is the analytical standard of Triclosan. This product is intended for research and analytical applications. 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]}.

REFERENCES

- [1]. R J Heath, et al. Mechanism of triclosan inhibition of bacterial fatty acid synthesis. *J Biol Chem.* 1999 Apr 16;274(16):11110-4.
- [2]. Bo Kyung Park, et al. Effects of Triclosan on Neural Stem Cell Viability and Survival. *Biomol Ther (Seoul).* 2016 Jan;24(1):99-107.
- [3]. Jianan Zhang, et al. Microbial enzymes induce colitis by reactivating triclosan in the mouse gastrointestinal tract. *Nat Commun.* 2022 Jan 10;13(1):136.

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

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