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Produktinformation



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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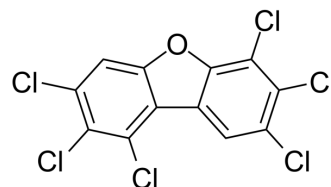
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1,2,3,6,7,8-Hexachlorodibenzofuran

Cat. No.:	HY-W762015
CAS No.:	57117-44-9
Molecular Formula:	C ₁₂ H ₂ Cl ₆ O
Molecular Weight:	374.86
Target:	Cytochrome P450
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	1,2,3,6,7,8-Hexachlorodibenzofuran (1,2,3,6,7,8-HxCDF) is a dioxin-like polychlorinated dibenzofuran (PCDF). 1,2,3,6,7,8-Hexachlorodibenzofuran induces expression of the genes encoding aryl hydrocarbon hydroxylase (AHH) and ethoxyresorufin-O-deethylase (EROD) in H-4-II-E rat hepatoma cells (EC ₅₀ s = 1.47 and 1.24 nM, respectively). 1,2,3,6,7,8-Hexachlorodibenzofuran reduces weight, induces thymic atrophy, and induces the expression of genes encoding the cytochrome P450 (CYP) isoform CYP1A1 and 4-chlorobiphenyl hydroxylase in rats (EC ₅₀ s = 3.2, 0.9, 0.35, and 0.21 μmol/kg, respectively) ^{[1][2][3]} .
IC ₅₀ & Target	CYP1A1

REFERENCES

- [1]. Harnly M, et al. Polychlorinated Dibenzo-p-dioxin and Dibenzofuran Contamination at Metal Recovery Facilities, Open Burn Sites, and a Railroad Car Incineration Facility. Environ Sci Technol. 1995 Mar 1;29(3):677-84.
- [2]. Mason G, et al. Polychlorinated dibenzofurans (PCDFs): correlation between in vivo and in vitro structure-activity relationships. Toxicology. 1985 Oct;37(1-2):1-12.
- [3]. Bandiera S, et al. Polychlorinated dibenzofurans (PCDFs): effects of structure on binding to the 2,3,7,8-TCDD cytosolic receptor protein, AHH induction and toxicity. Toxicology. 1984 Aug;32(2):131-44.

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

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