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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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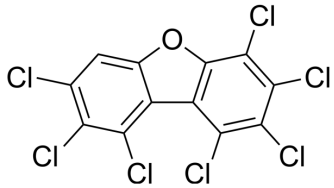
1,2,3,4,7,8,9-Heptachlorodibenzofuran

Cat. No.:	HY-W517092
CAS No.:	55673-89-7
Molecular Formula:	$C_{12}HCl_7O$
Molecular Weight:	409.31
Target:	Aryl Hydrocarbon Receptor; Cytochrome P450
Pathway:	Immunology/Inflammation; Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

1,2,3,4,7,8,9-Heptachlorodibenzofuran (1,2,3,4,7,8,9-HpCDF) is a compound that induces the expression of CYP1A1 and CYP1B1 genes in human peripheral blood lymphocytes, while also promoting the expression of the aryl hydrocarbon receptor repressor (AhRR). 1,2,3,4,7,8,9-Heptachlorodibenzofuran can increase ethoxyresorufin-O-deethylase (EROD) activity in isolated human peripheral blood lymphocytes in a concentration-dependent manner, which serves as a marker of CYP1A1 activity. Furthermore, 1,2,3,4,7,8,9-Heptachlorodibenzofuran exhibits immunosuppressive effects by reducing the number of splenic plaque-forming cells in mice and increasing aryl hydrocarbon hydroxylase (AHH) activity in liver microsomes of mice injected with sheep red blood cells. 1,2,3,4,7,8,9-Heptachlorodibenzofuran can be used in research in the fields of immunology, metabolic diseases, and environmental toxicology[1][2][3][4].

REFERENCES

[1]. Dickerson R, et al. The structure-dependent effects of heptachlorodibenzofuran isomers in male C57BL/6 mice: immunotoxicity and monooxygenase enzyme induction. Fundam Appl Toxicol. 1990 Aug;15(2):298-307.

[2]. van Ede KI, et al. Differential relative effect potencies of some dioxin-like compounds in human peripheral blood lymphocytes and murine splenic cells. Toxicol Lett. 2014 Apr 7;226(1):43-52.

[3]. Hu SW, et al. PCDD/Fs levels in indoor environments and blood of workers of three municipal waste incinerators in Taiwan. Chemosphere. 2004 Apr;55(4):611-20.

[4]. Tawara K, et al. Effects of maternal dioxin exposure on newborn size at birth among Japanese mother-infant pairs. Environ Health Prev Med. 2009 Mar;14(2):88-95.

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

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