



SZABO SCANDIC

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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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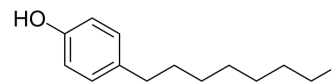
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4-Octylphenol

Cat. No.:	HY-W130878
CAS No.:	1806-26-4
Molecular Formula:	C ₁₄ H ₂₂ O
Molecular Weight:	206.32
Target:	Complement System; Toll-like Receptor (TLR); NF-κB
Pathway:	Immunology/Inflammation; NF-κB
Storage:	4°C, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



BIOLOGICAL ACTIVITY

Description

4-Octylphenol is a hormone disruptor that has gender-specific effects on male reproductive cells, significantly reducing the mitotic index and the number of spermatogonia. 4-Octylphenol can cause inflammatory damage to fish gills by activating the complement system through the C3a/C3aR axis and the C5a/C5aR1 axis, this leads to complement activation and causes immune suppression due to the imbalance between Th1/Th2 cells and regulatory T cells (Treg)/Th17 cells, as well as inflammatory damage via the Toll-like receptor 7 (Toll-like Receptor (TLR))/IκBα/NF-κB pathway^{[1][2]}.

REFERENCES

- [1]. E Bendsen, et al. Effect of 4-octylphenol on germ cell number in cultured human fetal gonads. 2001 Feb;16(2):236-43.
- [2]. Qi Sun, et al. Immunosuppression participated in complement activation-mediated inflammatory injury caused by 4-octylphenol via TLR7/IκBα/NF-κB pathway in common carp (*Cyprinus carpio*) gills. Aquat Toxicol. 2022 Aug;249:106211.

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

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