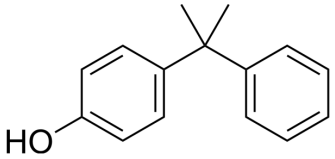
4-Cumylphenol

Cat. No.:	HY-W014282
CAS No.:	599-64-4
Molecular Formula:	$C_{15}H_{16}O$
Molecular Weight:	212.29
Target:	Biochemical Assay Reagents
Pathway:	Others
Storage:	4°C, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



BIOLOGICAL ACTIVITY

Description

4-Cumylphenol is a polycarbonate chain terminator. 4-Cumylphenol is widely used as a material for polycarbonate plastics, surfactants, fungicides and preservatives. 4-Cumylphenol also induces lipid accumulation in mouse adipocytes[1][2][3].

In Vitro

4-Cumylphenol (1, 5, 10, 20, 40 μM; 6 days) increase lipid accumulation in 3 T3-L1 cells[3].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Viability Assay[3]

Cell Line:	3 T3-L1 cells
Concentration:	1, 5, 10, 20, 40 μM
Incubation Time:	6 days
Result:	Increase lipid accumulation, which peaked at10 μM with a 204% increase.

REFERENCES

[1]. Yue W, et al. Biodegradation of bisphenol-A polycarbonate plastic by Pseudoxanthomonas sp. strain NyZ600. J Hazard Mater. 2021 Aug 15;416:125775.

[2]. Chiha M, et al. Sonolytic degradation of endocrine disrupting chemical 4-cumylphenol in water. Ultrason Sonochem. 2011 Sep;18(5):943-50.

[3]. Ramskov Tetzlaff CN, Svingen T, et al. Bisphenols B, E, F, and S and 4-cumylphenol induce lipid accumulation in mouse adipocytes similarly to bisphenol A. Environ Toxicol. 2020 May;35(5):543-552.

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