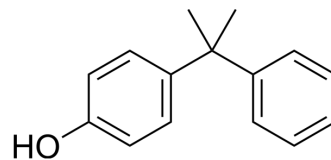


4-Cumylphenol

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	<p>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]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>3 T3-L1 cells</td> </tr> <tr> <td>Concentration:</td> <td>1, 5, 10, 20, 40 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>6 days</td> </tr> <tr> <td>Result:</td> <td>Increase lipid accumulation, which peaked at 10 μM with a 204% increase.</td> </tr> </table>	Cell Line:	3 T3-L1 cells	Concentration:	1, 5, 10, 20, 40 μM	Incubation Time:	6 days	Result:	Increase lipid accumulation, which peaked at 10 μM with a 204% increase.
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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, Svengen 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.

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

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