

p-cumylphenol

Chemical Properties

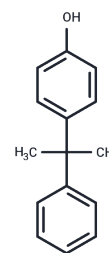
CAS No. : 599-64-4

Formula: C₁₅H₁₆O

Molecular Weight: 212.29

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	p-cumylphenol can treat Renal Tubular Cyst Formation in Newborn Rats.
Targets(IC50)	Others
In vivo	P-cumylphenol induced multiple renal cysts that developed in the collecting ducts of the outer medulla in neonatal rats, and it is suggested that epithelial cell proliferation may play some roles in the induction of cystic lesions.
Animal Research	Fifteen animals per sex were treated orally with 300 mg/kg/day of p-cumylphenol for up to 18 days from postnatal day (PND) 4 and were sacrificed on PNDs 8, 12, 19 and 22 and after a 7 day recovery period. On PNDs 8 and 12, slight dilatation of the collecting ducts was frequently observed in the medulla and slight papillary necrosis was also noted in some cases. These dilated collecting ducts were lined with slightly hyperplastic epithelial cells. On PNDs 19 and 22, multiple large cystic changes arising from the collecting ducts in the outer medulla were seen.

Solubility Information

Solubility	DMSO: 22.5 mg/mL (105.99 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.7105 mL	23.5527 mL	47.1054 mL
5 mM	0.9421 mL	4.7105 mL	9.4211 mL
10 mM	0.4711 mL	2.3553 mL	4.7105 mL
50 mM	0.0942 mL	0.4711 mL	0.9421 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Nakazawa T , Kasahara K , Ikezaki S , et al. Renal Tubular Cyst Formation in Newborn Rats Treated with p-Cumylphenol[J]. Journal of Toxicologic Pathology, 2009, 22(2):125-131.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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