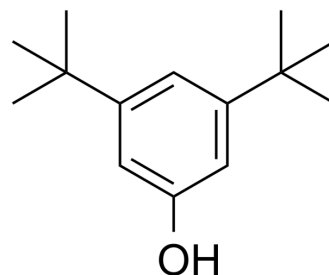


3,5-Di-tert-butylphenol

Cat. No.:	HY-W041080
CAS No.:	1138-52-9
Molecular Formula:	C ₁₄ H ₂₂ O
Molecular Weight:	206.32
Target:	Fungal; Reactive Oxygen Species
Pathway:	Anti-infection; Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB
Storage:	4°C, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (484.68 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
		Concentration				
		1 mM		4.8468 mL	24.2342 mL	48.4684 mL
		5 mM		0.9694 mL	4.8468 mL	9.6937 mL
10 mM		0.4847 mL	2.4234 mL	4.8468 mL		
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 2.5 mg/mL (12.12 mM); Suspended solution; Need ultrasonic Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (12.12 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (12.12 mM); Clear solution 					

BIOLOGICAL ACTIVITY

Description	3,5-Di-tert-butylphenol is a volatile organic compound with anti-biofilm and antifungal activities. 3,5-Di-tert-butylphenol induces accumulation of reactive oxygen species (ROS).
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REFERENCES

[1]. Janarthanam Rathna, et al. Anti-biofilm mechanisms of 3,5-di-tert-butylphenol against clinically relevant fungal pathogens. Biofouling. 2016 Oct;32(9):979-93.

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

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