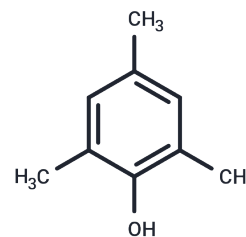


2,4,6-Trimethylphenol

Chemical Properties

CAS No. :	527-60-6
Formula:	C ₉ H ₁₂ O
Molecular Weight:	136.19
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	2,4,6-Trimethylphenol (Mesityl), primarily reacting with organic matter (3 DOM*), is a probe compound that undergoes rapid oxidation by singlet oxygen in aqueous solutions.
Targets(IC50)	Others
In vitro	Peroxidatic substrates, namely catechol (CAT) and 2,4,6-trimethylphenol (TMP) were employed to investigate the chloride-responsive reactions facilitated by chloroperoxidase (CPO). TMP demonstrates consumption exclusively in the presence of chloride ions. While TMP acts as a competitive inhibitor in relation to CAT, the inhibition pattern shifts for CAT in the presence of TMP during chloride-dependent CPO-catalyzed peroxidation reactions. In direct competition studies, the TMP to CAT consumption ratio in the chloride-dependent CPO reaction exhibits an augmentation as the chloride concentration is elevated from 1.0 to 400 mM.[3]

Solubility Information

Solubility	DMSO: 60 mg/mL (440.56 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	7.3427 mL	36.7134 mL	73.4268 mL
5 mM	1.4685 mL	7.3427 mL	14.6854 mL
10 mM	0.7343 mL	3.6713 mL	7.3427 mL
50 mM	0.1469 mL	0.7343 mL	1.4685 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.

Reference

Rosado-Lausell SL, et al. Roles of singlet oxygen and triplet excited state of dissolved organic matter formed by different organic matters in bacteriophage MS2 inactivation. Water Res. 2013;47(14):4869-4879.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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