

Produktinformation



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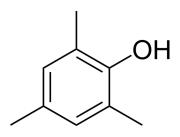
Screening Libraries

2,4,6-Trimethylphenol

Cat. No.: HY-W038786 CAS No.: 527-60-6 Molecular Formula: C H , O Molecular Weight: 136.19 Others Target: Pathway: Others

Storage: 4°C, stored under nitrogen

* In solvent: -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



Product Data Sheet

SOLVENT & SOLUBILITY

In Vitro

DMSO: 100 mg/mL (734.27 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	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

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- 1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (18.36 mM); Clear solution
- 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (18.36 mM); Clear solution
- 3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (18.36 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

2,4,6-Trimethylphenol is a probe compound shown to react mainly with organic matter (3DOM*). 2,4,6-Trimethylphenol is rapidly oxidized by singlet oxygen in aqueous solution^{[1][2]}.

In Vitro

Peroxidatic substrates, catechol (CAT) and 2,4,6-trimethylphenol (TMP) were used as probes of thechloride dependent reactions catalyzed by chloroperoxidase (CPO). TMP is consumed only in the presence of chloride. TMP is a competitive inhibitor versus CAT, but CAT is a noncompetitive inhibitor versus TMP in chloride-dependent CPO-catalyzed peroxidation reactions. The ratio of TMP versus CAT consumed by the chloride-dependent CPO reaction in direct competition studies increases as the chloride concentration is increased from 1.0 to 400 mM^[3].

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

REFERENCES

- [1]. 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.
- [2]. Paul G.Tratnyek, et al. Photo-oxidation of 2,4,6-trimethylphenol in aqueous laboratory solutions and natural waters: kinetics of reaction with singlet oxygen. Journal of Photochemistry and Photobiology A: Chemistry. Volume 84, Issue 2, 6 December 1994, Pa
- [3]. Libby RD, et al. Defining the involvement of HOCl or Cl2 as enzyme-generated intermediates in chloroperoxidase-catalyzed reactions. J Biol Chem. 1992;267(3):1769-1775.

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

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