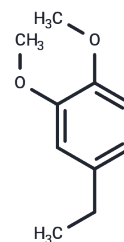


4-ethyl-1,2-dimethoxybenzene

Chemical Properties

CAS No. :	5888-51-7
Formula:	C ₁₀ H ₁₄ O ₂
Molecular Weight:	166.22
Storage:	Pure form: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	4-ethyl-1,2-dimethoxybenzene is an aromatic compound used in organic synthesis and biochemical experiments.
Targets(IC50)	Others
In vitro	<p>Methods: Strain ML27 isolated from soil was identified as <i>Streptomyces albidoflavus</i> based on morphological, physiological, biochemical, and molecular characteristics (16S rRNA, atpD, recA, and rpoB gene sequences). VOCs of <i>S. albidoflavus</i> strain ML27 were effectively captured using solid phase microextraction (SPME) and preliminarily identified by gas chromatography-mass spectrometry (GC/MS).</p> <p>Results: Among these compounds, 4-ethyl-1,2-dimethoxybenzene exhibited broad-spectrum antifungal activity and showed effectiveness in controlling citrus anthracnose with a control efficacy of 86.67%. [1]</p>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	6.0161 mL	30.0806 mL	60.1612 mL
5 mM	1.2032 mL	6.0161 mL	12.0322 mL
10 mM	0.6016 mL	3.0081 mL	6.0161 mL
50 mM	0.1203 mL	0.6016 mL	1.2032 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

Lai J, et al. Inhibitory mechanism of 4-ethyl-1,2-dimethoxybenzene produced by *Streptomyces albidoflavus* strain ML27 against *Colletotrichum gloeosporioides*. *Pestic Biochem Physiol.* 2024 Sep;204:106086.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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