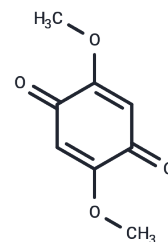


2,5-dimethoxycyclohexa-2,5-diene-1,4-dio

Chemical Properties

CAS No. :	3117-03-1
Formula:	C ₈ H ₈ O ₄
Molecular Weight:	168.15
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	2,5-dimethoxycyclohexa-2,5-diene-1,4-dio (Thermophillin) is a natural product. The redox cycle of 2,5-dimethoxybenzoquinone is a source of reducing equivalent for the regeneration of Fe ²⁺ and H ₂ O ₂ in brown rot fungal decay of wood.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: < 1.68 mg/mL (10 mM, insoluble or slightly soluble) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.9471 mL	29.7354 mL	59.4707 mL
5 mM	1.1894 mL	5.9471 mL	11.8941 mL
10 mM	0.5947 mL	2.9735 mL	5.9471 mL
50 mM	0.1189 mL	0.5947 mL	1.1894 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

Varela E, Tien M. Effect of pH and oxalate on hydroquinone-derived hydroxyl radical formation during brown rot wood degradation. Appl Environ Microbiol. 2003 Oct;69(10):6025-31.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481