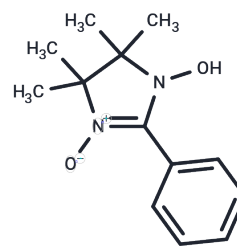


PTIO

Chemical Properties

CAS No. :	18390-00-6
Formula:	C ₁₃ H ₁₇ N ₂ O ₂
Molecular Weight:	233.29
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	PTIO, a specific scavenger of NO, reacts with nitric oxide to form nitric dioxide and corresponding imino nitroxides. PTIO can be utilized to examine nitric oxide synthase inhibitory activity.
Targets(IC50)	Others,NO Synthase

Solubility Information

Solubility	DMF:PBS(pH 7.2)(1:1): 0.5 mg/mL (2.14 mM),Sonication is recommended. DMF: 33 mg/mL (141.45 mM),Sonication is recommended. DMSO: 25 mg/mL (107.16 mM),Sonication is recommended. Ethanol: 25 mg/mL (107.16 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	4.2865 mL	21.4326 mL	42.8651 mL
5 mM	0.8573 mL	4.2865 mL	8.573 mL
10 mM	0.4287 mL	2.1433 mL	4.2865 mL
50 mM	0.0857 mL	0.4287 mL	0.8573 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

Goldstein S, et al. Reactions of PTIO and carboxy-PTIO with *NO, *NO₂, and O₂-. J Biol Chem. 2003;278(51):50949-50955.

Xia JL , et al. Putrescine regulates nitric oxide accumulation in Ganoderma lucidum partly by influencing cellular glutamine levels under heat stress. Microbiol Res. 2020;239:126521.

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