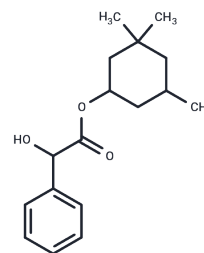


Cyclandelate

Chemical Properties

CAS No. :	456-59-7
Formula:	C ₁₇ H ₂₄ O ₃
Molecular Weight:	276.37
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	Cyclandelate (BS 572), a direct-acting smooth muscle relaxant, is used to dilate blood vessels.
Targets(IC50)	Others,Acyltransferase
In vivo	In vascular smooth muscle, Cyclandelate induces peripheral vasodilation by antagonizing calcium ion channel function. It facilitates the hydrolysis of aromatic and aliphatic esters, contributing to the detoxification of xenobiotics and the activation of ester and amide prodrugs, yet it exhibits no catalytic activity toward amides or acyl-CoA esters.

Solubility Information

Solubility	Ethanol: 51 mg/mL (184.54 mM),Sonication is recommended. DMSO: 55 mg/mL (199.01 mM),Sonication is recommended. H ₂ O: < 1 mg/mL (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	3.6183 mL	18.0917 mL	36.1834 mL
5 mM	0.7237 mL	3.6183 mL	7.2367 mL
10 mM	0.3618 mL	1.8092 mL	3.6183 mL
50 mM	0.0724 mL	0.3618 mL	0.7237 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

Middleton B, et al. *Drugs*, 1987, 33 Suppl 2:75-9.

Heffron F, et al. *Biochem Pharmacol*, 1990, 39(3), 575-580.

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