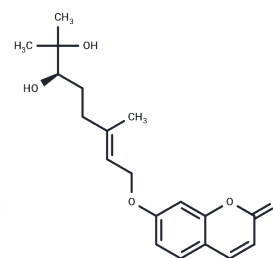


Marmin

Chemical Properties

CAS No. :	14957-38-1
Formula:	C ₁₉ H ₂₄ O ₅
Molecular Weight:	332.39
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	Marmin have anti-ulcer effects, which are ascribed primarily to the maintenance of the mucosal barrier integrity and inhibition of gastric motor activity and secondarily due to the prevention of the effects of endogenous acetylcholine and histamine.
Targets(IC50)	Calcium Channel,Antifection,Histamine Receptor
In vitro	In the study, we examined the effects of Marmin on the contraction of guinea pig-isolated trachea stimulated by several inducers, namely histamine, metacholine, compound 48/80. We also evaluated its action against contraction induced by extracellular or intracellular calcium ion. The possibility of Marmin to potentiate the relaxation effect of isoprenaline was also studied. Marmin added in the organ bath at 10 min prior to the agonist inhibited the contraction elicited by histamine and metacholine in a concentration-dependent manner. Moreover, Marmin antagonized the histamine-induced contraction in competitive manner. Marmin mildly potentiated the relaxation effect of isoprenaline. In the study, Marmin abrogated the contraction of tracheal smooth muscle induced by compound 48/80, an inducer of histamine release. Besides, Marmin successfully inhibited CaCl(2)-induced contraction in Ca(2+)-free Krebs solution. Marmin also inhibited two phases of contraction which were consecutively induced by metacholine and CaCl(2) in Ca(2+)-free Krebs solution[1]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.0085 mL	15.0426 mL	30.0851 mL
5 mM	0.6017 mL	3.0085 mL	6.017 mL
10 mM	0.3009 mL	1.5043 mL	3.0085 mL
50 mM	0.0602 mL	0.3009 mL	0.6017 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

Effects of marmin, a compound isolated from *Aegle marmelos* Correa, on contraction of the guinea pig-isolated trachea. *Pak J Pharm Sci.* 2011 Oct;24(4):427-33.

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