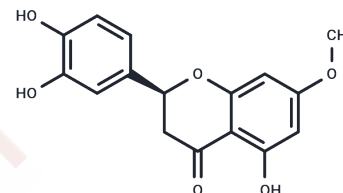


7-O-Methyleriodictyol

Chemical Properties

CAS No. :	51857-11-5
Formula:	C ₁₆ H ₁₄ O ₆
Molecular Weight:	302.28
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	7-O-Methyleriodictyol is a flavanone isolated from Artemisia monosperma and shows biological effects on rat isolated smooth muscles.
Targets(IC50)	Antibacterial,AChR
In vitro	7-O-Methyleriodictyol (0.1 nM to 300 nM) caused concentration-dependent inhibition of the amplitude of the phasic contractions and reduced the tone of the ileum, the uterus, and the urinary bladder. 7-O-Methyleriodictyol caused relaxation of the phenylephrine-precontracted pulmonary artery and the acetylcholine-precontracted trachea. 7-O-Methyleriodictyol shifted to the right the acetylcholine concentration-effect curve on the ileum and the oxytocin concentration-effect curve on the uterus. 7-O-Methyleriodictyol inhibited the maximum contractions induced by acetylcholine or oxytocin[1].

Solubility Information

Solubility	DMSO: 30.23 mg/mL (100.01 mM),Sonication and heating are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 1 mg/mL (3.31 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.3082 mL	16.541 mL	33.0819 mL
5 mM	0.6616 mL	3.3082 mL	6.6164 mL
10 mM	0.3308 mL	1.6541 mL	3.3082 mL
50 mM	0.0662 mL	0.3308 mL	0.6616 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

Abu-Niaaj L, et al. Isolation and biological effects of 7-O-methyleriodictyol, a flavanone isolated from *Artemisia monosperma*, on rat isolated smooth muscles. *Planta Med.* 1993 Feb;59(1):42-5.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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