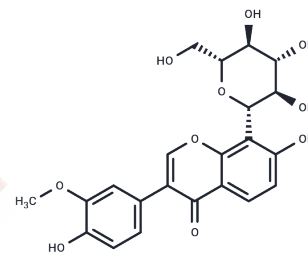


3'-Methoxypuerarin

Chemical Properties

CAS No. :	117047-07-1
Formula:	C ₂₂ H ₂₂ O ₁₀
Molecular Weight:	446.40
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	3'-Methoxypuerarin shows neuron protection activity, it can protect hippocampal neurons against ischemia/reperfusion injury by inhibiting apoptosis. 3'-Methoxypuerarin(3'-Methoxy Puerarin) has antioxidant activities, it shows ONOO(-) scavenging activity and weak NO· and O(2)(-) scavenging activities.
Targets(IC50)	Antioxidant

Solubility Information

Solubility	DMSO: 137.5 mg/mL (308.02 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 1.00 mg/mL (2.24 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	2.2401 mL	11.2007 mL	22.4014 mL
5 mM	0.448 mL	2.2401 mL	4.4803 mL
10 mM	0.224 mL	1.1201 mL	2.2401 mL
50 mM	0.0448 mL	0.224 mL	0.448 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

Liu Y, et al. Protection by 3'-methoxypuerarin of rat hippocampal neurons against ischemia/reperfusion injury. Chin J Physiol. 2010 Apr 30;53(2):136-40.

Zheng F, Ke J, Lin S, et al. Discovery of cyanidin-3-O-galactoside as a novel CNT2 inhibitor for the treatment of hyperuricemia. Bioorganic Chemistry. 2024: 108108.

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