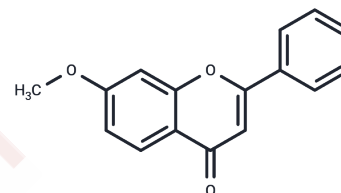


## 7-Methoxyflavone

## Chemical Properties

CAS No. :	22395-22-8
Formula:	C <sub>16</sub> H <sub>12</sub> O <sub>3</sub>
Molecular Weight:	252.26
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-Methoxyflavone isolated from Zornia brasiliensis with antinociceptive effects.
Targets(IC50)	Others,Cytochromes P450
In vivo	The antinociceptive effect of 7-methoxyflavone (7MF) in mice using the following tests: acetic acid-induced writhing, glutamate- and formalin-induced nociception and hotplate. 7MF (30, 50, 100 and 300 µmol/kg, i.p.) reduced the number of writhes, with ID <sub>50</sub> = 82.5 ± 11.7 µmol/kg and E max = 58.4%. 7MF treatment (100 µmol/kg, i.p.) inhibited paw-licking time in the neurogenic phase of the formalin pain response (65.6%) and did not decrease the nociceptive response in the inflammatory phase. In addition, in glutamate-induced nociception, 7MF inhibited 26% of the nociceptive answer. On the other hand, 7MF did not increase the latency time of the animals in the hotplate test. These results suggest that 7MF has peripheral antinociceptive activity

## Solubility Information

Solubility	DMSO: 25 mg/mL (99.1 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: 2 mg/mL (7.93 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

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	3.9642 mL	19.8208 mL	39.6416 mL
5 mM	0.7928 mL	3.9642 mL	7.9283 mL
10 mM	0.3964 mL	1.9821 mL	3.9642 mL
50 mM	0.0793 mL	0.3964 mL	0.7928 mL

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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

Antinociceptive effect of 7-methoxyflavone isolated from *Zornia brasiliensis*[J]. *Natural Product Letters*, 2013, 27 (18):1695-1699.

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