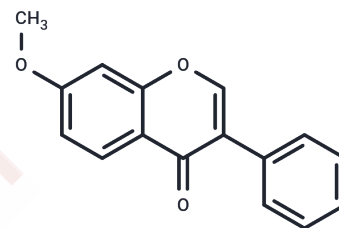


## 7-Methoxyisoflavone

## Chemical Properties

CAS No. :	1621-56-3
Formula:	C <sub>16</sub> H <sub>12</sub> O <sub>3</sub>
Molecular Weight:	252.26
Storage:	Store at low temperature Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	7-Methoxyisoflavone is an activator of adenosine monophosphate-activated protein kinase (AMPK).
Targets(IC50)	AMPK

## Solubility Information

Solubility	DMSO: 62 mg/mL (245.78 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

	1mg	5mg	10mg
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

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

Bátkai L, Nográdi M, Farkas L, et al. Demethylation of 7-methoxyisoflavone by *Penicillium cyclopium* [J]. *Arch Mikrobiol.* 1973 Mar 26;90(2):165-6.

Jung H, Ahn S, Kim B S, et al. Isoflavones as modulators of adenosine monophosphate-activated protein kinase [J]. *Applied Biological Chemistry*, 2016, 59(2):1-9.

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