

## 6-Prenylapigenin

## Chemical Properties

CAS No. :	68097-13-2
Formula:	C <sub>20</sub> H <sub>18</sub> O <sub>5</sub>
Molecular Weight:	338.35
Storage:	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	6-Prenylapigenin is a prenylated flavonoid that exists in the stems and leaves of <i>Maclura pomifera</i> . 6-Prenylapigenin exhibits cytotoxicity against cancer cells such as leukemia cells and solid tumor cells. 6-Prenylapigenin is additionally relevant in cancer-related cellular research models for investigating prenylated flavonoid interactions with tumor-associated signaling pathways and for biochemical profiling of flavonoid-induced cellular response mechanisms.
Targets(IC50)	Others
In vitro	Methods:The antiproliferative activity of 6-Prenylapigenin (4',5,7-Trihydroxy-6-prenylflavone) against various tumor cell lines was determined, and the corresponding IC <sub>50</sub> values were calculated. Results:This compound exhibited cytotoxicity against multiple cancer cells. Its IC <sub>50</sub> values for MCF-7, PF-382 and Caski cells were 1.7 μM, 11.2 μM and 13.8 μM, respectively [2].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9555 mL	14.7776 mL	29.5552 mL
5 mM	0.5911 mL	2.9555 mL	5.911 mL
10 mM	0.2956 mL	1.4778 mL	2.9555 mL
50 mM	0.0591 mL	0.2956 mL	0.5911 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

Sang-Jun Lee, et al. Prenylated flavonoids from *Maclura pomifera*. *Phytochemistry*. Vol. 49, No. 8, pp. 2573-2577, 1998.

Kuete V, et al. Cytotoxicity and mode of action of four naturally occurring flavonoids from the genus *Dorstenia*: gancaonin Q, 4-hydroxyonchocarpin, 6-prenylapigenin, and 6,8-diprenyleriodytol. *Planta Med.* 2011 Dec;77(18):1984-9.

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