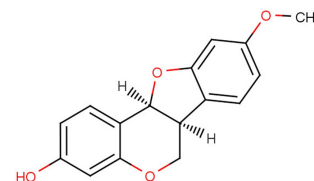


## (+) -Medicarpin

## Chemical Properties

CAS No.:	33983-39-0
Formula:	C <sub>16</sub> H <sub>14</sub> O <sub>4</sub>
Molecular Weight:	270.28
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



## Biological Description

Description	(+) -Medicarpin potently inhibits osteoclastogenesis and promotes bone healing and increases bone mass by osteoblast differentiation with estrogen receptor (ER) $\beta$ -mediated osteogenic action. (+) -Medicarpin, a pterocarpan, is a type of isoflavonoid isolated from several medicinal plant species with various biological effects, including <i>Sophora japonica</i> , <i>Zollernia paraensis</i> and <i>Platymiscium yucatanum</i> , <i>Machaerium aristulatum</i> , <i>Platymiscium floribundum</i> , and so on.
Targets(IC <sub>50</sub> )	ER $\beta$ : None

## Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.7 mL	18.499 mL	36.999 mL
5 mM	0.74 mL	3.7 mL	7.4 mL
10 mM	0.37 mL	1.85 mL	3.7 mL
50 mM	0.074 mL	0.37 mL	0.74 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

## Reference

1. Yang X, et al. Total Synthesis of (+)-Medicarpin. J Nat Prod. 2017 Dec 22;80(12):3284-3288.

Inhibitors · Natural Compounds · Compound Libraries

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