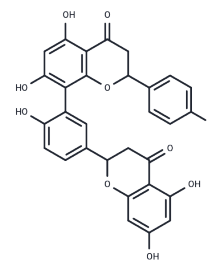


## Tetrahydroamentoflavone

## Chemical Properties

CAS No. :	48236-96-0
Formula:	C <sub>30</sub> H <sub>22</sub> O <sub>10</sub>
Molecular Weight:	542.49
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	Tetrahydroamentoflavone is a potent XO inhibitor (IC <sub>50</sub> = 92 nM, K <sub>i</sub> = 982 nM) with anti-inflammatory effects. Tetrahydroamentoflavone can be used for studies about inflammation and gout.
Targets(IC <sub>50</sub> )	COX,Xanthine Oxidase
In vitro	Tetrahydroamentoflavone shows in vitro cyclooxygenase (COX) inhibition activity with an IC <sub>50</sub> of 29.5 microM for COX-1 and 40.5% inhibition at 100 microg/mL for COX-2[3].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8434 mL	9.2168 mL	18.4335 mL
5 mM	0.3687 mL	1.8434 mL	3.6867 mL
10 mM	0.1843 mL	0.9217 mL	1.8434 mL
50 mM	0.0369 mL	0.1843 mL	0.3687 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

- Arimboor R, et al. Tetrahydroamentoflavone (THA) from *Semecarpus anacardium* as a potent inhibitor of xanthine oxidase. *J Ethnopharmacol.* 2011 Feb 16;133(3):1117-20.
- Xican Li, et al. Antioxidant Activity and Mechanism of Tetrahydroamentoflavone in vitro. *Natural Product Communications*, 2013 ,8 (6) :787-9.
- Selvam C, Jachak SM. A cyclooxygenase (COX) inhibitory biflavonoid from the seeds of *Semecarpus anacardium*. *J Ethnopharmacol.* 2004 Dec;95(2-3):209-12.

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