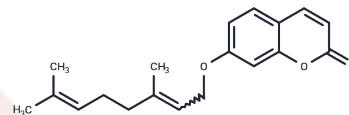


## Auraptene

## Chemical Properties

CAS No. :	495-02-3
Formula:	C <sub>19</sub> H <sub>22</sub> O <sub>3</sub>
Molecular Weight:	298.38
Appearance:	no data available
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year



## Biological Description

Description	Auraptene is a coumarin derived from citrus plants that bears a geranyloxyl moiety at its C-7. It has anti-inflammatory, anti-carcinogenic, anti-bacterial, neuroprotective, and hepatoprotective activities. It inhibits leukocyte activation and induces phase II enzymes during the initiation phase of carcinogenesis. <sup>1</sup> When examined for its potential use in Alzheimer's disease treatment, auraptene was shown to inhibit $\beta$ -secretase (BACE1) activity with an IC <sub>50</sub> value of 345.1 $\mu$ M.
Targets(IC <sub>50</sub> )	MMP,BACE

## Solubility Information

Solubility	DMSO: 50 mg/mL (167.57 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.3514 mL	16.7572 mL	33.5143 mL
5 mM	0.6703 mL	3.3514 mL	6.7029 mL
10 mM	0.3351 mL	1.6757 mL	3.3514 mL
50 mM	0.067 mL	0.3351 mL	0.6703 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.

### Reference

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- Sahebkar, A. Citrus auraptene: A potential multifunctional therapeutic agent for nonalcoholic fatty liver disease. *Ann. Hepatol.* 10(4), 575-577 (2011).

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