

## Apiole

## Chemical Properties

CAS No. : 523-80-8

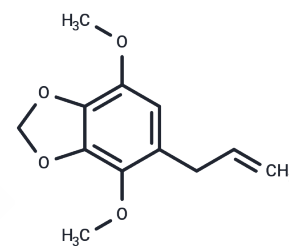
Formula: C<sub>12</sub>H<sub>14</sub>O<sub>4</sub>

Molecular Weight: 222.24

Keep away from direct sunlight, Keep away from moisture

Storage: Pure form: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Apiole (NSC 9070), a phenylpropane volatile compound isolated from parsley, is a calcium channel inhibitor, a mixed-type inhibitor of the CYP1A subfamily, with antitumor activity, induces apoptosis, and inhibits human colon cancer cells by inducing G0/G1 cell cycle arrest.
Targets(IC50)	Apoptosis

## Solubility Information

Solubility	DMSO: 1 mg/mL (4.5 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	4.4996 mL	22.4982 mL	44.9964 mL
5 mM	0.8999 mL	4.4996 mL	8.9993 mL
10 mM	0.450 mL	2.2498 mL	4.4996 mL
50 mM	0.090 mL	0.450 mL	0.8999 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

Alajlouni AM, et al. Risk assessment of combined exposure to alkenylbenzenes through consumption of plant food supplements containing parsley and dill. *Food Addit Contam Part A Chem Anal Control Expo Risk Assess*. 2017 Dec; 34(12):2201-2211.

Alajlouni AM, et al. Mode of action based risk assessment of the botanical food-borne alkenylbenzene apiol from parsley using physiologically based kinetic (PBK) modelling and read-across from safrole. *Food Chem Toxicol*. 2016 Mar;89:138-50.

Mahmood S, Hussain S, Malik F. Critique of medicinal conspicuousness of Parsley(*Petroselinum crispum*): a culinary herb of Mediterranean region. *Pak J Pharm Sci*. 2014 Jan;27(1):193-202.

Wei PL, et al. The in vivo antitumor effects on human COLO 205 cancer cells of the 4,7-dimethoxy-5-(2-propen-1-yl)-1,3-benzodioxole (apiole) derivative of 5-substituted 4,7-dimethoxy-5-methyl-1,3-benzodioxole (SY-1) isolated from the fruiting body of *Antrodia camphorate*. *J Cancer Res Ther*. 2012 Oct-Dec;8(4):532-6.

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