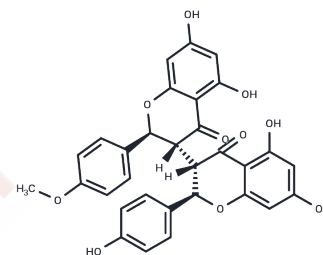


## Sikokianin C

## Chemical Properties

CAS No. :	159813-69-1
Formula:	C <sub>31</sub> H <sub>24</sub> O <sub>10</sub>
Molecular Weight:	556.52
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	Sikokianin C is a biflavonoid isolated from Wikstroemia sikokiana. Sikokianin C is a selective cystathionine $\beta$ -synthase inhibitor with antitumour activity for the treatment of human colon cancer.
Targets(IC50)	Others
In vitro	We analyzed the antitumor efficacy of sikokianin C against human colon cancer cells in vitro and in vivo. Sikokianin C greatly suppressed the proliferation of HT29 colon cancer cells with an IC <sub>50</sub> value of 1.6 $\mu$ M, and CBS is the target of sikokianin C in mammalian cells, as evidenced by CBS knockdown analyses. Moreover, sikokianin C induced the apoptosis of HT29 cancer cells in a dose-dependent manner. Treating mice with sikokianin C dramatically reduced the tumor volume and the weight of the colon cancer xenograft in vivo. These results indicate that the selective CBS inhibitor sikokianin C can potentially be used for the treatment of colon cancer.[1]

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7969 mL	8.9844 mL	17.9688 mL
5 mM	0.3594 mL	1.7969 mL	3.5938 mL
10 mM	0.1797 mL	0.8984 mL	1.7969 mL
50 mM	0.0359 mL	0.1797 mL	0.3594 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

Niu W, et al. Antitumor effect of sikokianin C, a selective cystathionine  $\beta$ -synthase inhibitor, against human colon cancer in vitro and in vivo. *Medchemcomm*. 2017 Nov 16;9(1):113-120.

Nunome S, et al. In vitro antimalarial activity of biflavonoids from *Wikstroemia indica*. *Planta Med*. 2004 Jan;70(1):76-8.

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