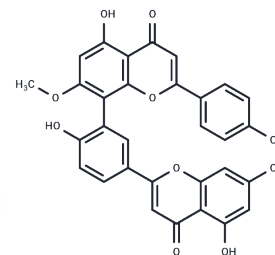


## Sotetsuflavone

## Chemical Properties

CAS No. :	2608-21-1
Formula:	C <sub>31</sub> H <sub>20</sub> O <sub>10</sub>
Molecular Weight:	552.48
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	Sotetsuflavone, with an IC <sub>50</sub> of 0.16 μM, stands as the most active compound in its series, acting as a potent inhibitor of DENV-NS5 RdRp (Dengue virus NS5 RNA-dependent RNA polymerase).
Targets(IC <sub>50</sub> )	Apoptosis,Others,Autophagy
In vitro	Herein we describe the structure-activity relationship study of 23 compounds: biflavonoids from <i>D. balansae</i> (1-4) and from <i>D. araucarioides</i> (5-10), hexamethylamentoflavone (11), cupressuflavone (12), and apigenin derivatives (13-23). We conclude that 1) over the four different biflavonoid skeletons tested, amentoflavone (1) and robustaflavone (5) are the most promising ones for antidengue drug development, 2) the number and position of methyl groups on the biflavonoid moiety modulate their inhibition of Dengue virus NS5 RNA-dependent RNA polymerase, and 3) the degree of oxygenation of flavonoid monomers influences their antidengue potential.

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.810 mL	9.0501 mL	18.1002 mL
5 mM	0.362 mL	1.810 mL	3.620 mL
10 mM	0.181 mL	0.905 mL	1.810 mL
50 mM	0.0362 mL	0.181 mL	0.362 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

Structure-activity relationship study of biflavonoids on the Dengue virus polymerase DENV-NS5 RdRp. *Planta Med.* 2013 Sep;79(14):1313-8.

Chen Z, Shi Y, Zhong F, et al. Discovery of amentoflavone as a natural PDE4 inhibitor with anti-fibrotic effects. *Chinese Chemical Letters.* 2024: 109956.

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