

## Thevetiaflavone

## Chemical Properties

CAS No. : 29376-68-9

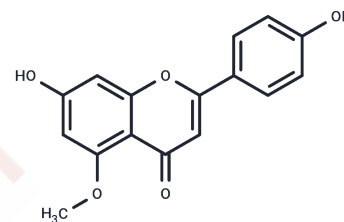
Formula: C<sub>16</sub>H<sub>12</sub>O<sub>5</sub>

Molecular Weight: 284.26

Storage: Store at low temperature, Keep away from direct sunlight

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	Thevetiaflavone (2-Genistein-5-methyl ether) is a natural flavonoid from Wikstroemia indica that inhibits the leakage of lactate dehydrogenase from the cytoplasm and increases cell viability.
Targets(IC50)	Bcl-2 Family, Caspase
In vitro	Thevetiaflavone reduces ROS overproduction and ameliorates ROS-mediated mitochondrial dysfunction, including collapse of mitochondrial membrane potential and opening of mitochondrial permeability transition pores, thereby reducing intracellular Ca <sup>2+</sup> levels. Thevetiaflavone up-regulates the expression of Bcl-2, down-regulates the expression of Bax and caspase-3 and increases the activity of caspase-3 to inhibit the apoptosis of PC12 cells[1].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.5179 mL	17.5895 mL	35.1791 mL
5 mM	0.7036 mL	3.5179 mL	7.0358 mL
10 mM	0.3518 mL	1.759 mL	3.5179 mL
50 mM	0.0704 mL	0.3518 mL	0.7036 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

Yao H, et al. Thevetiaflavone from Wikstroemia indica ameliorates PC12 cells injury induced by OGD/R via improving ROS-mediated mitochondrial dysfunction. Mol Med Rep. 2017 Dec;16(6):9197-9202.

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481