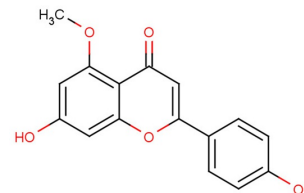


Thevetiaflavone

Chemical Properties

CAS No.:	29376-68-9
Formula:	C ₁₆ H ₁₂ O ₅
Molecular Weight:	284.26
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	Thevetiaflavone could up-regulate the expression of Bcl 2 and down-regulate that of Bax and caspase 3.
Targets(IC ₅₀)	Bcl-2: None
In vitro	Thevetiaflavone could improve cell viability and suppresses the leakage of lactate dehydrogenase from the cytoplasm. Thevetiaflavone decreases overproduction of ROS and ameliorates ROS mediated mitochondrial dysfunction, including collapse of mitochondrial membrane potential and mitochondrial permeability transition pore opening. Thevetiaflavone reduces the intracellular Ca ²⁺ level, which is closely associated with mitochondrial function and interplays with ROS. Furthermore, Thevetiaflavone inhibits apoptosis in PC12 cells through upregulating the expression of Bcl 2 and downregulating that of Bax and caspase 3 in addition to increasing the activity of caspase 3.

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.518 mL	17.59 mL	35.179 mL
5 mM	0.704 mL	3.518 mL	7.036 mL
10 mM	0.352 mL	1.759 mL	3.518 mL
50 mM	0.07 mL	0.352 mL	0.704 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. 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.

Inhibitors · Natural Compounds · Compound Libraries

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use.

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