
Product Data Sheet

Product Name: Thevetiaflavone

Cat. No.: GC37780

Chemical Properties

Cas. No. 29376-68-9

SMILES O=C1C=C(C2=CC=C(O)C=C2)OC3=CC(O)=CC(OC)=C13Formula $C_{16}H_{12}O_5$ M.Wt 284.26Solubility Soluble in DMSO Storage Store at $-20^{\circ}C$

General tips For obtaining a higher solubility , please warm the tube at $37^{\circ}C$ and shake it in the ultrasonic bath for a while. Stock solution can be stored below $-20^{\circ}C$ for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

Thevetiaflavone could upregulate the expression of Bcl-2 and downregulate that of Bax and caspase-3. Bcl-2 Bax Caspase-3

Thevetiaflavone, a natural flavonoid obtained from Wikstroemia indica, could improve cell viability and suppresses the leakage of lactate dehydrogenase from the cytoplasm. Further investigation of the mechanisms demonstrated that 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. These results further indicate the protective effects of thevetiaflavone in vivo and its application in the clinic[1].

[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

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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