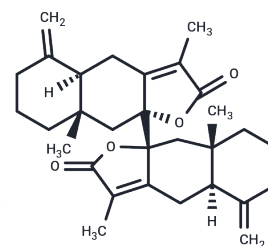


## Biatractylolide

## Chemical Properties

CAS No. :	182426-37-5
Formula:	C <sub>30</sub> H <sub>38</sub> O <sub>4</sub>
Molecular Weight:	462.62
Storage:	Keep away from direct sunlight Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	Biatractylolide is a natural product that can be used for research related to the life sciences.
Targets(IC50)	Apoptosis,Others
In vitro	In PC12 cells, Biatractylolide significantly attenuated A $\beta$ <sub>1-42</sub> -induced cytotoxicity (20, 40, and 80 $\mu$ M, 24h), increased cell viability, reduced ROS levels, and suppressed apoptosis-related protein expression (e.g., cleaved caspase-3 and Bax/Bcl-2 ratio), indicating antioxidant and anti-apoptotic properties[1].
In vivo	In SD rats with hippocampal A $\beta$ <sub>1-42</sub> -induced Alzheimer's disease model, oral administration of Biatractylolide (20 and 40mg/kg/day, for 14 days) improved cognitive function (shortened escape latency in the Morris water maze), and reduced expression of p-Tau and cleaved caspase-3 in hippocampal tissue, suggesting neuroprotective and anti-Alzheimer's potential[1].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1616 mL	10.808 mL	21.616 mL
5 mM	0.4323 mL	2.1616 mL	4.3232 mL
10 mM	0.2162 mL	1.0808 mL	2.1616 mL
50 mM	0.0432 mL	0.2162 mL	0.4323 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

Zhu L, Ning N, Li Y, Zhang QF, Xie YC, Irshad M, Feng X, Tao XJ. Biatractylolide Modulates PI3K-Akt-GSK3 $\beta$ -Dependent Pathways to Protect against Glutamate-Induced Cell Damage in PC12 and SH-SY5Y Cells. Evid Based Complement Alternat Med. 2017;2017:1291458.

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