

## Ginkgetin

### Chemical Properties

CAS No. : 481-46-9

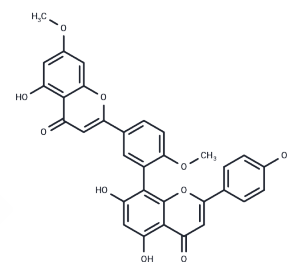
Formula: C<sub>32</sub>H<sub>22</sub>O<sub>10</sub>

Molecular Weight: 566.51

Storage: Keep away from direct sunlight, Keep away from moisture

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	1. Ginkgetin has anti-influenza virus and anti-fungal activities. 2. Ginkgetin has anti-inflammatory activity, can down-regulates COX-2 induction in vivo against skin inflammatory responses. 3. Ginkgetin is a good STAT3 inhibitor and may be a useful lead molecule for development of a therapeutic STAT3 inhibitor. 4. Ginkgetin induces apoptosis in PC-3 cells via activation of caspase 3 and inhibition of survival genes as a potent chemotherapeutic agent for prostate cancer treatment. 5. Ginkgetin has neuroprotective activity against neurological injury induced by MPTP occurs via regulating iron homeostasis, it may provide neuroprotective therapy for Parkinson's disease and iron metabolism disorder related diseases.
Targets(IC50)	Apoptosis,STAT,Autophagy,COX,Wnt/beta-catenin

### Solubility Information

Solubility	DMSO: 55 mg/mL (97.09 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	1.7652 mL	8.826 mL	17.6519 mL
5 mM	0.353 mL	1.7652 mL	3.5304 mL
10 mM	0.1765 mL	0.8826 mL	1.7652 mL
50 mM	0.0353 mL	0.1765 mL	0.353 mL

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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

You O H , Kim S H , Kim B , et al. Ginkgetin induces apoptosis via activation of caspase and inhibition of survival genes in PC-3 prostate cancer cells[J]. Bioorganic & Medicinal Chemistry Letters, 2013, 23(9):2692-2695.

Tang T, Wang X, Qi E, et al. Ginkgetin Promotes M2 Polarization of Microglia and Exert Neuroprotection in Ischemic Stroke via Modulation of PPAR $\gamma$  Pathway. Neurochemical Research. 2022: 1-12

Xiao Y, Cai G P, Feng X, et al. Splicing factor YBX1 regulates bone marrow stromal cell fate during aging. The EMBO Journal. 2023: e111762.

Liu Y, Ye J, Fan Z, et al. Ginkgetin Alleviates Inflammation and Senescence by Targeting STING. Advanced Science. 2024: 2407222.

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