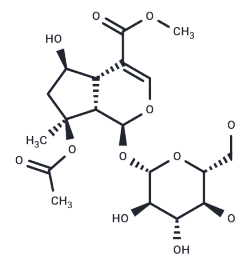


## Barlerin

## Chemical Properties

CAS No. :	57420-46-9
Formula:	C <sub>19</sub> H <sub>28</sub> O <sub>12</sub>
Molecular Weight:	448.42
Storage:	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	Barlerin (8-O-Acetylshanzhiside methyl ester) has potential against cerebral ischemic injury, and its protective effect on oxygen-glucose deprivation-induced injury might be due to the suppression of intracellular Ca <sup>2+</sup> elevation and caspase-3 activity, and improvement of mitochondrial energy metabolism. 8-O-Acetylshanzhiside methylester can increase angiogenesis and improve functional recovery after stroke. 8-O-Acetylshanzhiside methylester has protective effects on experimental myocardial ischemia injury, the effects might be due to block of myocardial inflammatory cascades through an HMGB1-dependent NF-κB signaling pathway. 8-O-Acetylshanzhiside methylester protects diabetic brain against I/R injury by alleviating diabetic cerebral I/R injury and attenuating blood-brain barrier (BBB) breakdown, and its protective effects may involve HMGB-1 and NF-κB signalling pathway.
Targets(IC50)	NF-κB, Akt, Caspase, TNF, VEGFR

## Solubility Information

Solubility	DMSO: 82 mg/mL (182.86 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.3 mg/mL (7.36 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	2.2301 mL	11.1503 mL	22.3005 mL
5 mM	0.446 mL	2.2301 mL	4.4601 mL
10 mM	0.223 mL	1.115 mL	2.2301 mL
50 mM	0.0446 mL	0.223 mL	0.446 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

Kang ZC, Jiang WL, et al. Cardioprotection with 8-O-acetyl shanzhiside methylester on experimental myocardial ischemia injury. Send to

Zhang L, et al. 8-O-acetyl shanzhiside methylester attenuates cerebral ischaemia/reperfusion injury through an anti-inflammatory mechanism in diabetic rats. Send to Basic Clin Pharmacol Toxicol. 2014 Dec;115(6):481-7.

Jiang WL, et al. Effect of 8-O-acetyl shanzhiside methylester increases angiogenesis and improves functional recovery after stroke. Basic Clin Pharmacol Toxicol. 2011 Jan;108(1):21-7.

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