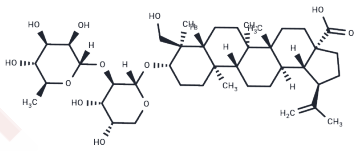
# Data Sheet (Cat.No.T3911)

TargetMol

## Pulchinenoside A

### Chemical Properties



CAS No. : 129724-84-1

Formula: C41H66O12

Molecular Weight: 750.96

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 | Pulchinenoside A (Anemoside A3) is an attractive candidate for further development as a cognitive enhancer capable of alleviating memory dysfunctions associated with aging and neurodegenerative diseases. |
| Targets(IC50) | Others,iGluR |

### Solubility Information

| | |
|---|---|
| Solubility | DMSO: 125 mg/mL (166.45 mM),Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |
| In vivo Formulation | 10% DMSO+90% Saline: < 10 mg/mL (13.32 mM),Lower concentrations may be soluble, but exact solubility limit is unknown.<br>10% DMSO+40% PEG300+5% Tween 80+45% Saline: 10 mg/mL (13.32 mM),Solution.<br>*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.* |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|---|---|---|---|
| 1 mM | 1.3316 mL | 6.6581 mL | 13.3163 mL |
| 5 mM | 0.2663 mL | 1.3316 mL | 2.6633 mL |
| 10 mM | 0.1332 mL | 0.6658 mL | 1.3316 mL |
| 50 mM | 0.0266 mL | 0.1332 mL | 0.2663 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

Ip FC, Fu WY, Cheng EY, Tong EP, et al.Anemoside A3 Enhances Cognition through the Regulation of Synaptic Function and Neuroprotection.Neuropsychopharmacology. 2015 Jul;40(8):1877-87.
Jung D H, Lee A, Hwang Y H, et al.Therapeutic effects of Pulsatilla koreana Nakai extract on ovalbumin-induced allergic rhinitis by inhibition of Th2 cell activation and differentiation via the IL-4/STAT6/GATA3 pathway. Biomedicine & Pharmacotherapy.2023, 162: 114730.
Zhang DM, Lin SM, Lau CW,et al.Anemoside A3-induced relaxation in rat renal arteries: role of endothelium and Ca2+ channel inhibition.Planta Med. 2010 Nov;76(16):1814-9.
Gao XD, Ye WC, Yu AC,et al.Pulsatilloside A and anemoside A3 protect PC12 cells from apoptosis induced by sodium cyanide and glucose deprivation.Planta Med. 2003 Feb;69(2):171-4.