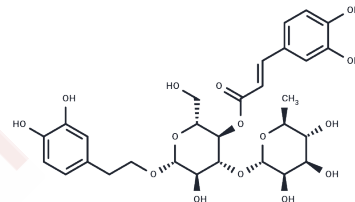


## Verbascoside

## Chemical Properties

|                   |   |
|-------------------|---|
| CAS No. :         | 61276-17-3  |
| Formula:          | C <sub>29</sub> H <sub>36</sub> O <sub>15</sub>   |
| Molecular Weight: | 624.59  |
| Storage:          | Keep away from moisture<br>Powder: -20°C for 3 years   In solvent: -80°C for 1 year<br><small>Actual storage temperature shall be subject to the COA.</small> |



## Biological Description

|               |  |
|---------------|--|
| Description   | Verbascoside (Kusagin) is a protein kinase C inhibitor with antimicrobial, anti-inflammatory activities. |
| Targets(IC50) | Apoptosis, Antibacterial, HSV, p53, PARP, PKC  |

## Solubility Information

|                     |  |
|---------------------|--|
| Solubility          | Methanol: Soluble,<br>DMSO: 102 mg/mL (163.31 mM), Sonication is recommended.<br>( $< 1$ mg/ml refers to the product slightly soluble or insoluble)  |
| In vivo Formulation | 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 4 mg/mL (6.4 mM), Sonication is recommended.<br><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

|       | 1mg       | 5mg       | 10mg       |
|-------|-----------|-----------|------------|
| 1 mM  | 1.6011 mL | 8.0053 mL | 16.0105 mL |
| 5 mM  | 0.3202 mL | 1.6011 mL | 3.2021 mL  |
| 10 mM | 0.1601 mL | 0.8005 mL | 1.6011 mL  |
| 50 mM | 0.032 mL  | 0.1601 mL | 0.3202 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

Herbert JM, et al. Natural Products, 1991, 54 (6): 1595-1600;

Qu Y, Sun X, Wei N, et al. Inhibition of cutaneous heat-sensitive Ca<sup>2+</sup>-permeable transient receptor potential vanilloid 3 channels alleviates UVB-induced skin lesions in mice. The FASEB Journal. 2023, 37(12): e23309.

Santoro A, et al. Toxicol Lett. 2008 May 5;178(2):71-6.;

Dell'Aquila ME, et al. Biomed Res Int. 2014;2014:878062.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel: 781-999-4286    E\_mail: info@targetmol.com    Address: 34 Washington Street, Wellesley Hills, MA 02481