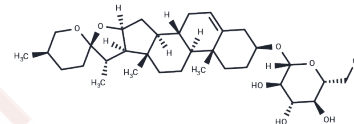


## Diosgenin glucoside

## Chemical Properties

|                   |   |
|-------------------|---|
| CAS No. :         | 14144-06-0  |
| Formula:          | C <sub>33</sub> H <sub>52</sub> O <sub>8</sub>  |
| Molecular Weight: | 576.76  |
| Storage:          | Powder: -20°C for 3 years   In solvent: -80°C for 1 year<br>Actual storage temperature shall be subject to the COA. |



## Biological Description

|               |  |
|---------------|--|
| Description   | Diosgenin glucoside (Trillin) and other synthetic glycosides with similar activities may be of use in the management of hypercholesterolemia and atherosclerosis. Significant inhibition of Diosgenin glucoside synthesis and stimulation of solasodine glucosylation was found only with PC molecular species containing fatty acids with a chain length of 12-18 carbon atoms. |
| Targets(IC50) | Apoptosis, Autophagy   |

## Solubility Information

|                     |  |
|---------------------|--|
| Solubility          | DMSO: 7.79 mg/mL (13.51 mM), Sonication is recommended.<br>( $< 1$ mg/ml refers to the product slightly soluble or insoluble)  |
| In vivo Formulation | 10% DMSO+90% Corn Oil: 2.5 mg/mL (4.33 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  | 1.7338 mL | 8.6691 mL | 17.3382 mL |
| 5 mM  | 0.3468 mL | 1.7338 mL | 3.4676 mL  |
| 10 mM | 0.1734 mL | 0.8669 mL | 1.7338 mL  |
| 50 mM | 0.0347 mL | 0.1734 mL | 0.3468 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

Malinow MR,et al. Effects of synthetic glycosides on steroid balance in *Macaca fascicularis*. *J Lipid Res.* 1987 Jan;28(1):1-9.

Pazkowski C,et al. Phospholipids modulate the substrate specificity of soluble UDP-glucose:steroid glucosyltransferase from eggplant leaves. *Phytochemistry.* 2001 Nov;58(5):663-9.

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