

## Tiliroside

## Chemical Properties

CAS No. :	20316-62-5
Formula:	C <sub>30</sub> H <sub>26</sub> O <sub>13</sub>
Molecular Weight:	594.52
Storage:	Keep away from direct sunlight,Keep away from moisture Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>

## Biological Description

Description	1. Tiliroside (Tribuloside) shows anticarcinogenic activity. 2. Tiliroside shows hepatoprotective activity. 3. Tiliroside shows antioxidant and anti-inflammatory activity, can inhibit neuroinflammation in neurodegenerative disorders. 4. Tiliroside has anti-diabetic effect, are at least partially mediated through inhibitory effects on carbohydrate digestion and glucose uptake in the gastrointestinal tract. 5. Tiliroside and gnaphaliin are antioxidants against in vitro Cu(2+)-induced LDL oxidation in the same order of magnitude compared to that of the reference drug, probucol. 6. Tiliroside enhances fatty acid oxidation via the enhancement adiponectin signaling associated with the activation of both AMP-activated protein kinase and peroxisome proliferator-activated receptor $\alpha$ and ameliorates obesity-induced metabolic disorders.
Targets(IC50)	Antioxidant

## Solubility Information

Solubility	DMSO: 100 mg/mL (168.2 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: 4 mg/mL (6.73 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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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	1.682 mL	8.4101 mL	16.8203 mL
5 mM	0.3364 mL	1.682 mL	3.3641 mL
10 mM	0.1682 mL	0.841 mL	1.682 mL
50 mM	0.0336 mL	0.1682 mL	0.3364 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

Goto T , Teraminami A , Lee J Y , et al. Tiliroside, a glycosidic flavonoid, ameliorates obesity-induced metabolic disorders via activation of adiponectin signaling followed by enhancement of fatty acid oxidation in liver and skeletal muscle in obese-diabetic mice[J]. Journal of Nutritional Biochemistry, 2012, 23(7):0-0.

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