

## Norswertianolin

## Chemical Properties

CAS No. : 54954-12-0

Formula: C<sub>19</sub>H<sub>18</sub>O<sub>11</sub>

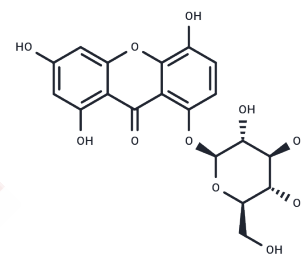
Molecular Weight: 422.34

Storage:

Keep away from direct sunlight, Keep away from moisture, Store at low temperature

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	Norswertianolin, a compound isolated from <i>G. acuta</i> , is a small molecule activator of CSE, which enhances the H-generation 2S activity of CSE and can be used in the study of cardiovascular diseases.
Targets(IC50)	Others
In vitro	Norswertianolin (3.125-50 $\mu$ M) was able to protect against H <sub>2</sub> O <sub>2</sub> -induced damage in H9c2 cells. In addition, Norswertianolin significantly increased the transcript levels of HO-1 and GCLC in H9c2 cells. [1] In HepG2 cells, high concentrations of Norswertianolin (0~150 $\mu$ M) were able to increase the expression level of CSE protein. [2]
In vivo	Animal experiments showed that Norswertianolin (4.4 mg/kg/day, subcutaneous injection for one week) improved CSE/H <sub>2</sub> S production and attenuated renal tubular injury induced by acute ischemia/reperfusion, and exerted antioxidant effects by decreasing ROS levels. In addition, it has antihypertensive, inhibits vascular remodeling and reduces inflammation. [2]

## Solubility Information

Solubility	DMSO: 20 mg/mL (47.36 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: 2 mg/mL (4.74 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	2.3678 mL	11.8388 mL	23.6776 mL
5 mM	0.4736 mL	2.3678 mL	4.7355 mL
10 mM	0.2368 mL	1.1839 mL	2.3678 mL
50 mM	0.0474 mL	0.2368 mL	0.4736 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

Ren K, et al. Effects of Four Compounds from *Gentianella acuta* (Michx.) Hulten on Hydrogen Peroxide-Induced Injury in H9c2 Cells. *Biomed Res Int.* 2019 Jan 20;2019:2692970.

Niu Y, et al. Norswertianolin Promotes Cystathionine  $\gamma$ -Lyase Activity and Attenuates Renal Ischemia/Reperfusion Injury and Hypertension. *Front Pharmacol.* 2021 Jul 14;12:677212.

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