

## Torachryson-8-O-b-D-glucoside

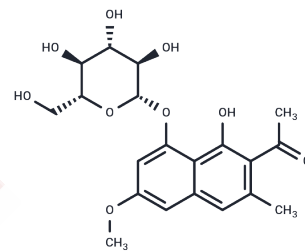
## Chemical Properties

CAS No. : 64032-49-1

Formula: C<sub>20</sub>H<sub>24</sub>O<sub>9</sub>

Molecular Weight: 408.4

Storage: Store at low temperature, Keep away from direct sunlight  
 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	Torachryson-8-O-b-D-glucoside exhibits alpha-glucosidase inhibitory activities and may be utilized for managing type 2 diabetes.
Targets(IC50)	Antifection
In vitro	A new kind of in vitro $\alpha\pm$ -glucosidase inhibition assay based on using maltose as the substrate was developed, and this new established method was used to determine the $\alpha\pm$ -glucosidase inhibitory activities of Polygonum multiflorum and four anthraquinone compounds. As a result, Polygonum multiflorum showed 50% $\alpha\pm$ -glucosidase inhibition at the concentration of 0.0032 mg mL <sup>-1</sup> and four anthraquinone compounds including emodin, aloë-emodin, physcion and rhein showed strong $\alpha\pm$ -glucosidase inhibitory activities with IC <sub>50</sub> values ranging from 4.12 $\mu$ M to 5.68 $\mu$ M, respectively. Moreover, the centrifugal ultrafiltration with LC-ESI-MSn was used to screen and identify active $\alpha\pm$ -glucosidase inhibitors from Polygonum multiflorum extract and nine small-molecule active compounds were successfully identified as potential $\alpha\pm$ -glucosidase inhibitors.

## Solubility Information

Solubility	DMSO: 65 mg/mL (159.16 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: 1 mg/mL (2.45 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	2.4486 mL	12.2429 mL	24.4858 mL
5 mM	0.4897 mL	2.4486 mL	4.8972 mL
10 mM	0.2449 mL	1.2243 mL	2.4486 mL
50 mM	0.049 mL	0.2449 mL	0.4897 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

The screening of potential  $\alpha$ -glucosidase inhibitors from the Polygonum multiflorum extract using ultrafiltration combined with liquid chromatography-tandem mass spectrometry *Anal. Methods-UK*. 2014, 6(10):3353-9.  
Zheng F, Ke J, Lin S, et al. Discovery of cyanidin-3-O-galactoside as a novel CNT2 inhibitor for the treatment of hyperuricemia. *Bioorganic Chemistry*. 2024: 108108.

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