

## Cassiaside

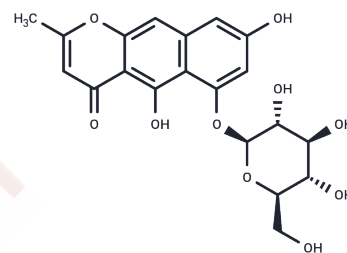
## Chemical Properties

CAS No. : 13709-03-0

Formula: C<sub>20</sub>H<sub>20</sub>O<sub>10</sub>

Molecular Weight: 420.37

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	Cassiaside is a naphthyl ketone glycoside that inhibits BACE1 (IC <sub>50</sub> = 4.45 μM; Ki=9.85 μM). Cassiaside exhibits significant hepatoprotective effects against galactosamine injury and has potential anti-Alzheimer's disease (AD) activity.
Targets(IC <sub>50</sub> )	Beta-Secretase, BACE

## Solubility Information

Solubility	DMSO: 20 mg/mL (47.58 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 (4.76 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	2.3789 mL	11.8943 mL	23.7886 mL
5 mM	0.4758 mL	2.3789 mL	4.7577 mL
10 mM	0.2379 mL	1.1894 mL	2.3789 mL
50 mM	0.0476 mL	0.2379 mL	0.4758 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

- Choi JS, et al. In vitro antimutagenic effects of anthraquinone aglycones and naphthopyrone glycosides from *Cassia tora*. *Planta Med.* 1997;63(1):11-14.
- Jung HA, et al. Inhibitory activities of major anthraquinones and other constituents from *Cassia obtusifolia* against  $\beta$ -secretase and cholinesterases. *J Ethnopharmacol.* 2016;191:152-160.
- Choi JS, et al. Alaternin, cassiaside and rubrofusarin gentiobioside, radical scavenging principles from the seeds of *Cassia tora* on 1,1-diphenyl-2-picrylhydrazyl (DPPH) radical. *Arch Pharm Res.* 1994;17(6):462-466.

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