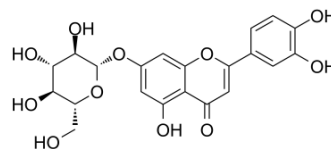


## Cynaroside

Cat. No.:	HY-N0540		
CAS No.:	5373-11-5		
Molecular Formula:	C <sub>21</sub> H <sub>20</sub> O <sub>11</sub>		
Molecular Weight:	448.38		
Target:	Influenza Virus; DNA/RNA Synthesis		
Pathway:	Anti-infection; Cell Cycle/DNA Damage		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 83.33 mg/mL (185.85 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	2.2303 mL	11.1513 mL	22.3025 mL
	5 mM	0.4461 mL	2.2303 mL	4.4605 mL
	10 mM	0.2230 mL	1.1151 mL	2.2303 mL

Please refer to the solubility information to select the appropriate solvent.

#### In Vivo

- Add each solvent one by one: **10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline**  
Solubility: ≥ 2.08 mg/mL (4.64 mM); Clear solution
- Add each solvent one by one: **10% DMSO >> 90% (20% SBE-β-CD in saline)**  
Solubility: ≥ 2.08 mg/mL (4.64 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Cynaroside (Luteolin 7-glucoside) is a flavone, a flavonoid-like chemical compound. Cynaroside is also a potent influenza RNA-dependent RNA polymerase inhibitor with an IC<sub>50</sub> of 32 nM<sup>[1]</sup>.

### CUSTOMER VALIDATION

- Acta Pharm Sin B. 2020 Jul.

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- *Eur J Med Chem.* 22 August 2020, 112754.
  - *Biochem Biophys Res Commun.* 2018 Sep 3;503(1):297-303.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

## REFERENCES

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[1]. Václav Zima, et al. Unraveling the Anti-Influenza Effect of Flavonoids: Experimental Validation of Luteolin and its Congeners as Potent Influenza Endonuclease Inhibitors. *Eur J Med Chem.* 22 August 2020, 112754.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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