

## Cichoric Acid

## Chemical Properties

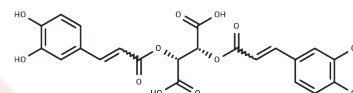
CAS No. : 6537-80-0

Formula: C<sub>22</sub>H<sub>18</sub>O<sub>12</sub>

Molecular Weight: 474.37

Storage: Store at low temperature, Keep away from moisture  
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   | Cichoric Acid (Dicaffeoyltartaric acid) is a potent inhibitor of human immunodeficiency virus type-1 (HIV-1) integrase and the replication in tissues. It also a class of cannabinomimetics with CB2 receptor-dependent and independent. |
| Targets(IC50) | Apoptosis, Reactive Oxygen Species, HIV Protease, ROS  |

## Solubility Information

|                     |  |
|---------------------|--|
| Solubility          | H <sub>2</sub> O: 5 mg/mL (10.54 mM), Sonication is recommended.<br>DMSO: 347 mg/mL (731.5 mM), Sonication is recommended.<br>( $< 1$ mg/ml refers to the product slightly soluble or insoluble)   |
| In vivo Formulation | 50% PEG300+50% Saline: 10 mg/mL (21.08 mM)<br><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

|       | 1mg       | 5mg        | 10mg       |
|-------|-----------|------------|------------|
| 1 mM  | 2.1081 mL | 10.5403 mL | 21.0806 mL |
| 5 mM  | 0.4216 mL | 2.1081 mL  | 4.2161 mL  |
| 10 mM | 0.2108 mL | 1.054 mL   | 2.1081 mL  |
| 50 mM | 0.0422 mL | 0.2108 mL  | 0.4216 mL  |

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

King P J, Robinson W E. Resistance to the anti-human immunodeficiency virus type 1 compound L-chicoric acid results from a single mutation at amino acid 140 of integrase[J]. Journal of virology, 1998, 72(10): 8420-8424.

Structure-based identification of HNF4 $\alpha$  agonists: Rosmarinic acid as a promising candidate for NAFLD treatment

Raduner S, et al. Alkylamides from Echinacea are a new class of cannabinomimetics. Cannabinoid type 2 receptor-dependent and -independent immunomodulatory effects.[J]. Journal of Biological Chemistry, 2006, 281(20):14192-14206.

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