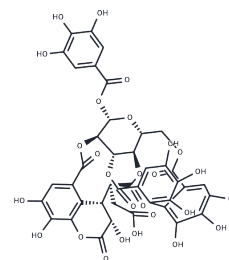


Chebulagic acid

Chemical Properties

| | |
|-------------------|--|
| CAS No. : | 23094-71-5 |
| Formula: | C ₄₁ H ₃₀ O ₂₇ |
| Molecular Weight: | 954.66 |
| Storage: | Keep away from direct sunlight Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i> |



Biological Description

| | |
|---------------|--|
| Description | Chebulagic acid, isolated from the Terminalia chebula Retz, is a COX-LOX dual inhibitor. |
| Targets(IC50) | COX, Influenza Virus, Lipoyxygenase, SARS-CoV |
| In vitro | Chebulagic acid can enhance autophagy and exerts anti-inflammatory and anti-infective effects [1,2]. Chebulagic acid also shows a protective effect against 1-methyl-4-phenylpyridinium (MPP+) - induce cytotoxicity which mimics the pathological symptom of Parkinson's disease. Chebulagic acid inhibits the LPS-induced upregulation of TNF- α and IL-1 β in a dose- and time-dependent manner [3]. |

Solubility Information

| | |
|---------------------|---|
| Solubility | DMSO: 150 mg/mL (157.12 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 (1.05 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

| | 1mg | 5mg | 10mg |
|-------|-----------|-----------|------------|
| 1 mM | 1.0475 mL | 5.2375 mL | 10.4749 mL |
| 5 mM | 0.2095 mL | 1.0475 mL | 2.095 mL |
| 10 mM | 0.1047 mL | 0.5237 mL | 1.0475 mL |
| 50 mM | 0.0209 mL | 0.1047 mL | 0.2095 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

Kim HJ et al. Neuroprotective Effect of Chebulagic Acid via Autophagy Induction in SH-SY5Y Cells. *Biomol Ther* (Seoul). 2014 Jul;22(4):275-81.

Liu Y et al. Chebulagic acid inhibits the LPS-induced expression of TNF- α and IL-1 β in endothelial cells by suppressing MAPK activation. *Exp Ther Med*. 2015 Jul;10(1):263-268.

Athira AP et al. Inhibition of Angiogenesis In Vitro by Chebulagic Acid: A COX-LOX Dual Inhibitor. *Int J Vasc Med*. 2013;2013:843897.

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