

Product Data Sheet

Product Name: Chebulagic acid

Cat. No.: GC31707

Chemical Properties

Cas. No. 23094-71-5

SMILES OC(CC(C(O[C@H]([C@@H](COC(C1=CC(O)=C2O)=O)O[C@@H]3OC(C4=CC(O)=C(O)C(O)=C4)=O)[C@H](OC(C5=CC(O)=C(O)C(O)=C5C1=C2O)=O)[C@H]3OC6=O)=O)C(C7O)C(C6=CC(O)=C8O)=C8OC7=O)=O

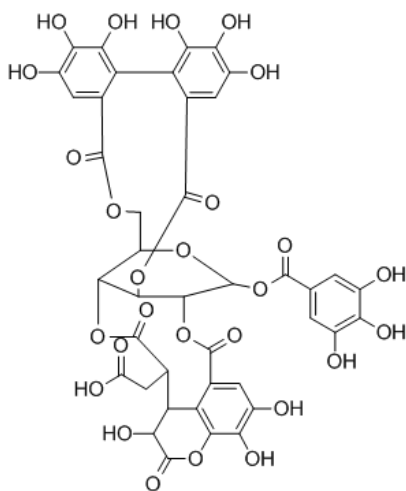
Formula $C_{41}H_{30}O_{27}$ M.Wt 954.66

Solubility DMSO : 100 mg/mL (104.75 mM) Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



Background

Chebulagic acid is a COX-LOX dual inhibitor isolated from the fruits of *Terminalia chebula* Retz, on angiogenesis.target: COX-LOX [1] In vitro: Chebulagic acid can enhance the autophagy. Chebulagic acid exert anti-inflammatory and anti-infective effects. [1] [2] Chebulagic acid also show a protective effect against 1-methyl-4-phenylpyridinium (MPP+) - induce cytotoxicity which mimics the pathological symptom of Parkinson's disease. Chebulagic acid inhibit the LPS-induced upregulation

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

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of TNF- α and IL-1 β in a dose- and time-dependent manner. Furthermore, LPS-activated MAPK signaling is inhibited by CA treatment in the EA.hy926 cells. [3]

[1]. 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. [2]. 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. [3]. 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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