

Product Data Sheet

Product Name: Chrysosplenetin

Cat. No.: GC35692

Chemical Properties

Cas. No. 603-56-5

SMILES O=C1C(OC)=C(C2=CC=C(O)C(OC)=C2)OC3=CC(OC)=C(OC)C(O)=C13

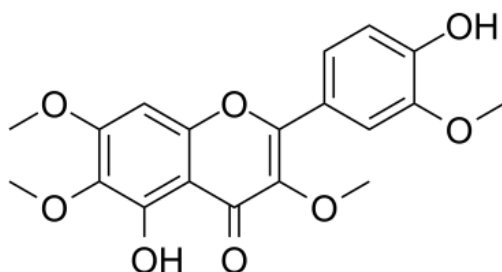
Formula $C_{19}H_{18}O_8$ M.Wt 374.34

Solubility DMSO : 100 mg/mL (267.14 mM; Need ultrasonic) 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

Chrysosplenetin is one of the polymethoxylated flavonoids in *Artemisia annua* L. (Compositae) and other several Chinese herbs. Chrysosplenetin inhibits P-gp activity and reverses the up-regulated P-gp and MDR1 levels induced by artemisinin (ART). Chrysosplenetin significantly augments the rat plasma level and anti-malarial efficacy of ART, partially due to the uncompetitive inhibition effect of Chrysosplenetin on rat CYP3A[1]. CYP3A

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

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[1]. Ma L, et al. Chrysosplenetin inhibits artemisinin efflux in P-gp-over-expressing Caco-2 cells and reverses P-gp/MDR1 mRNA up-regulated expression induced by artemisinin in mouse small intestine. Pharm Biol. 2017 Dec;55(1):374-380.

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