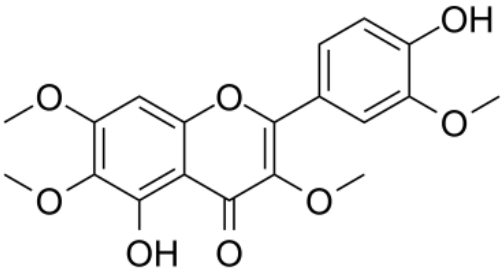
Product Data Sheet

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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