Product Data Sheet

Product Name: Cauloside C
Cat. No.: GC35616

Chemical Properties

Cas. No.	20853-58-1		
SMILES	CC1(C)CC[C@@]2(CC[C@]3(C)C([C@@H]2C1)=CC[C@@H]4[C@@]5(C)CC[C@H](O[C@@H]6OC[C@H](O)[C@H](O)[C@H]6O[C@@H]7O[C@H](CO)[C@@H](O)[C@H](O)[C@H]7O)[C@@]([C@@H]5CC[C@@]34C)(C)CO)C(O)=O		
Formula	$C_{41}H_{66}O_{13}$	M.Wt	766.95
Solubility	DMF: 20 mg/ml,DMF:PBS(pH 7.2)(1:1): 0.5 mg/ml,DMSO: 15 mg/ml,Ethanol: 5 mg/ml	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ 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	Cauloside C		

Background

Hederoside D_2 is a triterpenoid saponin originally isolated from *C. robustum* rhizome and roots and has diverse biological activities.[1,2] It induces potassium release and hemolysis in mouse erythrocytes in a pH-dependent manner when used at a concentration of 10 µg/ml.[2] Hederoside D_2 is cytotoxic to N1E-115 neuroblastoma cells at low pH. It induces proliferation of human embryonic fibroblasts in acidic medium, an effect that can be blocked by the calcium channel blockers verapamil , diltiazem, and nitrendipine .

1.Murakami, T., Nagasawa, M., Urayama, S., et al.New triterpenoid saponins in the rhizome and roots of Caulophyllum robustumYakugaku Zasshi88(3)321-324(1968) 2.Likhatskaya, G.N., Aminin, D.L., Agafonova, I.G., et al.The pH-dependent channels formed by cauloside CAdvances in Experimental Medicine and Biology404239-249(1996)

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