Product Data Sheet

Product Name: Taccalonolide A
Cat. No.: GC37715

Chemical Properties

Cas. No.	108885-68-3		
SMILES	C[C@@]12[C@]([C@@H](OC(C)=O)[C@]3([H])[C@]2([H])[C@@H](C=C(O4)[C@@]3([C@](O)(C4=O)C)C)C)([H])[C@@]([C@H]5O)([H])[C@]([C@]6([C@H]([C@@H](O7)[C@@H]7C[C@]6([H])C5=O)OC(C)=O)C)([H])[C@H](OC(C)=O)[C@@H]1OC(C)=O		
Formula	$C_{36}H_{46}O_{14}$	M.Wt	702.74
Solubility	Soluble in DMSO	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	Taccalonolide A		

Background

Taccalonolide A is a microtubule stabilizer, which is a steroid isolated from Tacca chantrieri, with cytotoxic and antimalarial activities[1][2]. Taccalonolide A causes G2-M accumulation, Bcl-2 phosphorylation and initiation of apoptosis[1]. Taccalonolide A is effective in vitro against cell lines that overexpress P-glycoprotein (Pgp) and multidrug resistance protein 7 (MRP7), with an IC50 of 622 nM for SK-OV-3 cells[3]. microtubule[1]

[1]. Tinley TL, et al. Taccalonolides E and A: Plant -derived steroids with microtubule-stabilizing activity. Cancer Res. 2003 Jun 15;63(12):3211-20. [2]. Risinger AL, et al. Taccalonolides: Novel microtubule stabilizers with clinical potential. Cancer Lett. 2010 May 1;291(1):14-9. [3]. Risinger AL, et al. The taccalonolides: microtubule stabilizers that circumvent clinically relevant taxane resistance mechanisms. Cancer Res. 2008 Nov 1;68(21):8881-8.

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