Product Data Sheet

Product Name: Demethylwedelolactone
Cat. No.: GC38576

Chemical Properties

Cas. No.	6468-55-9		
SMILES	O=C1C2=C(OC3=CC(O)=C(O)C=C32)C4=C(O)C=C(O)C=C4O1		
Formula	$C_{15}H_8O_7$	M.Wt	300.22
Solubility	DMF: 30 mg/ml,DMSO: 30 mg/ml,DMSO:PBS (pH 7.2) (1:1): 0.5 mg/ml,Ethanol: 20 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	Demethylwedelolactone		

Background

Demethylwedelolactone (DWL) is a coumestan, originally isolated from *E. alba*, with diverse biological activities.[1,2,3,4] It reduces cytotoxicity induced by CCL_4 and galactosamine in rat hepatocytes in a dose-dependent manner.[1] DWL inhibits trypsin with an IC_{50} value of 3.0 μg/ml *in vitro*.[2] It is the major constituent in purified butanolic extracts of *E. prostrata* which inhibit lethal and hemorrhagic activities of *C. rhodostoma* venom.[3] DWL also inhibits anchorage-independent cell growth of MDA-MB-231 breast cancer cells and decreases the number of lung metastases in an MDA-MB-231 xenograft model in nude mice.[4]

1.Wagner, H., Geyer, B., Kiso, Y., et al.Coumestans as the main active principles of the liver drugs Eclipta alba and Wedelia calendulaceaPlanta Med.5370-374(1986) 2.Syed, S.D., Deepak, M., Yogisha, S., et al.Trypsin inhibitory effect of wedelolactone and demethylwedelolactonePhytother. Res.17(4)420-421(2003) 3.Pithayanukul, P.,

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Laovachirasuwan, S., Bavovada, R., et al.Anti-venom potential of butanolic extract of Eclipta prostrata against Malayan pit viper venomJ. Ethnaopharmacol.90(2-3)347-352(2004) 4.Lee, Y.-J., Lin, W.-L., Chen, N.-F., et al.Demethylwedelolactone derivatives inhibit invasive growth in vitro and lung metastasis of MDA-MB-231 breast cancer cells in nude miceEur. J. Med. Chem.56(1)631-637(2012)

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