Product Data Sheet

Product Name: Fraxinol
Cat. No.: GC38623

Chemical Properties

Cas. No.	486-28-2		
SMILES	O=C1C=CC2=C(OC)C(O)=C(OC)C=C2O1		
Formula	$C_{11}H_{10}O_5$	M.Wt	222.19
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	Fraxinol		

Background

Fraxinol is a coumarin originally isolated from Ash tree bark.[1] It inhibits growth of GLC-4 small cell lung carcinoma and COLO 320 colorectal cancer cells (IC_{50}s = 193 and 165 µM, respectively).[2] Fraxinol potentiates barbiturate-induced sleep in rats and rabbits.[3]

1.Spath, E., and Jerzmanowska-Sienkiewiczowa, Z.Natural coumarins. XXV. Fraxinol, a new constituent of the bark of the ashBerichte der Deutschen Chemischen Gesellschaft [Abteilung] B: Abhandlungen70B698-702(1937) 2.Kolodziej, H., Kayser, O., Woerdenbag, H.J., et al.Structure-cytotoxicity relationships of a series of natural and semi-synthetic simple coumarins as assessed in two human tumour cell linesZ. Naturforsch. C52(3-4)240-244(1997) 3.Khadzhai, Y.I.Effect of coumarin, flavonoid, and khellin derivatives on the soporific effect of barbituratesFarmakologiya i Toksikologiya (Kiev)746-48(1972)

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