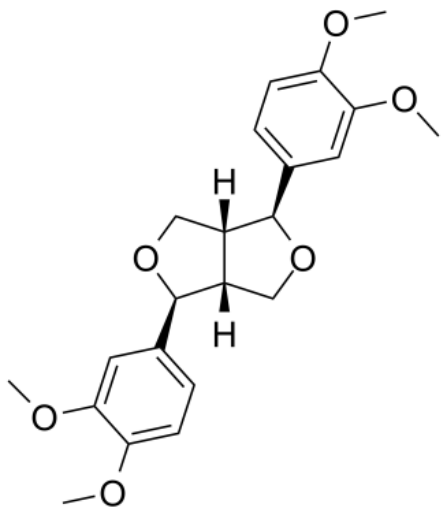
Product Data Sheet

Product Name: Pinoresinol dimethyl ether
Cat. No.: GC36923

Chemical Properties

Cas. No.	29106-36-3		
SMILES	COC1=CC=C([C@H]2OC[C@]3([H])[C@@H](C4=CC=C(OC)C(OC)=C4)OC[C@@]32[H])C=C1OC		
Formula	$C_{22}H_{26}O_6$	M.Wt	386.44
Solubility	DMSO : 100 mg/mL (258.77 mM; Need ultrasonic)	Storage	Store at 4°C,protect from light
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

Pinoresinol dimethyl ether ((+)-Eudesmin) is a non-phenolic furofuran lignan isolated from the stem

bark of Magnolia kobus with neuritogenic activity. Pinoresinol dimethyl ether ((+)-Eudesmin) can induce neuritis outgrowth from PC12 cells by stimulating up-stream MAPK, PKC and PKA pathways[1][2].

[1]. TeruhisaMiyauchi, et al. Formation of (+)-eudesmin in Magnolia kobus DC. Var. borealis sarg. Phytochemistry, 1998, 47(4): 665-670. [2]. Yang YJ, et al. Effects of (+)-eudesmin from the stem bark of magnolia kobus DC. var. borealis Sarg. on neurite outgrowth in PC12 cells. Arch Pharm Res. 2006 Dec;29(12):1114-8.

Caution: Product has not been fully validated for medical applications. For research use only.
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