Product Data Sheet

Product Name: Furanodienone
Cat. No.: GC62981

Chemical Properties

Cas. No.	24268-41-5		
Formula	$C_{15}H_{18}O_2$	M.Wt	230.3
Solubility		Storage	
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	Furanodienone		

Background

Furanodienone is one of the major bioactive constituents derived from Rhizoma Curcumae. Furanodienone induced apoptosis[1].

Furanodienone (0-573.8 μM; 24 hours) exhibits IC50 values : 56.4 μM (RKO), 73.7 μM (sw480), 251.1 μM (HT-29), 412.5 μM (sw620) and 573.8 μM (LoVo) at 24 hours, while that in 48 h are 51.8 μM (RKO), 44.18 μM (sw480), 168.9 μM (HT-29), 314.2 μM (sw620) and 502.1 μM (LoVo), respectively[1].Furanodienone (0-150 μM; 24 hours) induces apoptosis and shows increase in caspase-9 and -3 activity has been observed in both cells, whereas a relative minor effect on that of caspase-8 in RKO and HT-29 cells[1].Furanodienone (0-150 μM; 24 hours) increases the apoptotic rates from 2.34±0.45% to 19.45±2.37% and 27.34±0.79%, in RKO cells at 75 and 150 μM. whereas 12.4±1.08 and 20.64±3.02% apoptosis at the concentration of 75 and 150 μM are observed in HT-29 cells compared with 2.89±0.26%[1].

[1]. Li YW, et al. Furanodienone induces cell cycle arrest and apoptosis by suppressing EGFR/HER2 signaling in HER2-overexpressing human breast cancer cells. Cancer Chemother Pharmacol. 2011 Nov;68(5):1315-23.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA