Product Data Sheet

Product Name: CIL56
Cat. No.: GC32237

Chemical Properties

Cas. No.	300802-28-2		
SMILES	O=S(C1=CC2=C(C=C1)C3=C(C=C(S(=O)(N4CCCCC4)=O)C=C3)/C2=N\O)(N5CCCCC5)=O		
Formula	$C_{23}H_{27}N_3O_5S_2$	M.Wt	489.61
Solubility	DMSO : 50 mg/mL (102.12 mM);Water : < 0.1 mg/mL (insoluble)	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	CIL56		

Background

CIL56 is a small molecule that induces non-apoptotic cell death in a manner dependent on acetyl-CoA carboxylase 1 (ACC1), the rate-limiting enzyme in fatty acid synthesis.[1] HT-1080 cells lacking ACC1 exhibit 5-fold resistance to CIL56 treatment, indicating ACC1 activity sensitizes cells to CIL56-induced cell death. CIL56 (6.5 μM) induces accumulation of long-chain saturated, monounsaturated, and polyunsaturated fatty acids in HT-1080 cells *in vitro*.

1.Dixon, S.J., Winter, G.E., Musavi, L.S., et al.Human haploid cell genetics reveals roles for lipid metabolism genes in nonapoptotic cell deathACS Chem. Biol.10(7)1604-1609(2015)

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