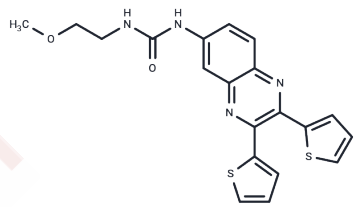
Data Sheet (Cat.No.T4380)

TargetMol

Ac-CoA Synthase Inhibitor1

Chemical Properties



CAS No. : 508186-14-9

Formula: C20H18N4O2S2

Molecular Weight: 410.51

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	Ac-CoA Synthase Inhibitor1 (ACSS2 inhibitor) is the most potent and specific inhibitor of acetate-dependent acetyl-CoA synthetase 2 (ACSS2).
Targets(IC50)	Fatty Acid Synthase,RSV
In vitro	This quinoxaline compound inhibits the ability of HepG2 cells to incorporate [14C] acetate into lipids with IC50 = 6.8 μM. The quinoxaline is also able to inhibit HepG2 utilization of [14C]acetate for histone acetylation with IC50 = 5.5 μM.

Solubility Information

Solubility	Ethanol: 2 mg/mL (4.87 mM),Sonication is recommended. DMSO: 40 mg/mL (97.44 mM),Sonication is recommended. H2O: < 1 mg/mL (insoluble or slightly soluble), (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.436 mL	12.180 mL	24.3599 mL
5 mM	0.4872 mL	2.436 mL	4.872 mL
10 mM	0.2436 mL	1.218 mL	2.436 mL
50 mM	0.0487 mL	0.2436 mL	0.4872 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Comerford SA,etal.Acetate dependence of tumors.Cell. 2014 Dec 18;159(7):1591-602.

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