Data Sheet (Cat.No.T60859)

TargetMol

5-Pentadecylresorcinol

Chemical Properties

CAS No. : 3158-56-3

Formula: C21H36O2

Molecular Weight: 320.51

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	5-Pentadecylresorcinol (Adipostatin A) demonstrates potent larvicidal activity against Aedes aegypti and functions as an inhibitor of glycerol-3-phosphate dehydrogenase (GPDH) with an IC50 value of 4.1 μM. 5-Pentadecylresorcinol is relevant for investigations involving insect metabolism, vector control biology, enzymatic regulation of glycerol metabolism, and lipid-associated biochemical pathways.
Targets(IC50)	Dehydrogenase
In vitro	5-Pentadecylresorcinol, also known as Adipostatin A, inhibits triglyceride accumulation in 3T3-L1 cells at micromolar concentrations [1].

Solubility Information

Solubility	DMSO: 80 mg/mL (249.6 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.120 mL	15.6001 mL	31.2003 mL
5 mM	0.624 mL	3.120 mL	6.2401 mL
10 mM	0.312 mL	1.560 mL	3.120 mL
50 mM	0.0624 mL	0.312 mL	0.624 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Tsuge N, et al. Adipostatins A and B, new inhibitors of glycerol-3-phosphate dehydrogenase. J Antibiot (Tokyo). 1992 Jun;45(6):886-91.

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