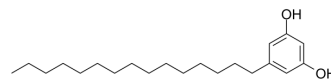


5-Pentadecylresorcinol

Cat. No.:	HY-116934		
CAS No.:	3158-56-3		
Molecular Formula:	C ₂₁ H ₃₆ O ₂		
Molecular Weight:	320.51		
Target:	Others		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 50 mg/mL (156.00 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass			
			1 mg	5 mg	10 mg	
			1 mM	3.1200 mL	15.6001 mL	31.2003 mL
			5 mM	0.6240 mL	3.1200 mL	6.2401 mL
10 mM	0.3120 mL	1.5600 mL	3.1200 mL			
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 1.25 mg/mL (3.90 mM); Suspended solution; Need ultrasonic					
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 1.25 mg/mL (3.90 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	5-Pentadecylresorcinol (Adipostatin A) is a glycerol-3-phosphate dehydrogenase (GPDH) inhibitor with an IC ₅₀ of 4.1 μM. Adipostatin A shows good larvicidal activity against <i>Aedes aegypti</i> ^{[1][2]} .
In Vitro	5-Pentadecylresorcinol (Adipostatin A) prevents triglyceride accumulation in 3T3-L1 cells at a concentration of the microM level ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

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

[2]. Micheline Soares Costa Oliveira, et al. Antioxidant, larvicidal and antiacetylcholinesterase activities of cashew nut shell liquid constituents. Acta Trop. 2011 Mar;117(3):165-70.

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

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