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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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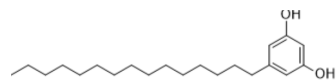
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5-Pentadecylresorcinol

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

- 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
- 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 IC₅₀ of 4.1 μM. Adipostatin A shows good larvicidal activity against *Aedes aegypti*^{[1][2]}.

In Vitro

5-Pentadecylresorcinol (Adipostatin A) prevents triglyceride accumulation in 3T3-L1 cells at a concentration of the micromolar level^[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

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- Mol Cell. 2024 Jan 17:S1097-2765(24)00003-0.

See more customer validations on www.MedChemExpress.com

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

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