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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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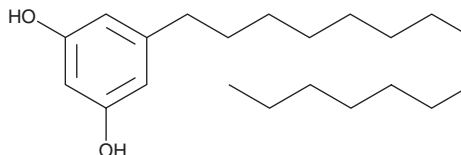
PRODUCT INFORMATION



Adipostatin A

Item No. 22163

CAS Registry No.: 3158-56-3
Formal Name: 5-pentadecyl-1,3-benzenediol
Synonym: NSC 776, 5-pentadecyl Resorcinol
MF: C₂₁H₃₆O₂
FW: 320.5
Purity: ≥95%
Supplied as: A solid
Storage: -20°C
Stability: ≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Adipostatin A is supplied as a solid. A stock solution may be made by dissolving the adipostatin A in the solvent of choice. Adipostatin A is soluble in organic solvents such as ethanol, methanol, DMSO, and dimethyl formamide, which should be purged with an inert gas.

Description

Adipostatin A is an inhibitor of glycerol-3-phosphate dehydrogenase (GPDH; IC₅₀ = 4.1 μM).¹ It prevents triglyceride accumulation in 3T3-L1 cells when applied at 5-7.5 μM.¹ Adipostatin A is cytotoxic against fibroblast carcinoma KB cell lines with an IC₅₀ value of 10.6 μM.² It also shows larvicidal activity (LC₉₀ = 10.22 ppm) against *A. aegypti*.³

References

1. Tsuge, N., Mizokami, M., Imai, S., *et al.* Adipostatins A and B, new inhibitors of glycerol-3-phosphate dehydrogenase. *J. Antibiot. (Tokyo)* **45(6)**, 886-891 (1992).
2. Tanaka, A., Arai, Y., Kim, S.-N., *et al.* Synthesis and biological evaluation of bilobol and adipostatin A. *J. Asian Nat. Prod. Res.* **13(4)**, 290-296 (2011).
3. Oliveira, M.S.C., de Moraes, S.M., Magalhães, D.V., *et al.* Antioxidant, larvicidal and antiacetylcholinesterase activities of cashew nut shell liquid constituents. *Acta. Trop.* **117(3)**, 135-170 (2011).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the [complete](#) Safety Data Sheet, which has been sent via email to your institution.

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