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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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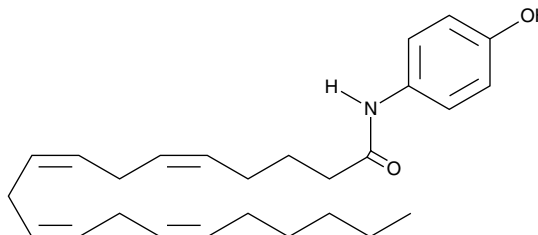
Product Information



AM404

Item No. 90060

CAS Registry No.: 183718-77-6
Formal Name: N-(4-hydroxyphenyl)-5Z,8Z,11Z,14Z-eicosatetrenamide
Synonyms: 4-HPA, N-(4-hydroxyphenyl) Arachidonoyl Amide
MF: C₂₆H₃₇NO₂
FW: 395.6
Purity: ≥98%
Stability: ≥1 year at -20°C
Supplied as: A solution in ethanol
UV/Vis.: λ_{max}: 250 nm



Laboratory Procedures

For long term storage, we suggest that AM404 be stored as supplied at -20°C. It should be stable for at least one year.

AM404 is supplied as a solution in ethanol. To change the solvent, simply evaporate the ethanol under a gentle stream of nitrogen and immediately add the solvent of choice. Solvents such as DMSO and dimethyl formamide purged with an inert gas can be used. The solubility of AM404 in these solvents is approximately 50 mg/ml.

AM404 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, the ethanolic solution of AM404 should be diluted with the aqueous buffer of choice. AM404 has a solubility of approximately 0.25 mg/ml in a 1:3 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

AM404 is an analog of arachidonoyl ethanolamide (AEA) which potentiates the activity of endogenous AEA by blocking its re-uptake into presynaptic neurons. AM404 selectively inhibits the carrier-mediated transport of AEA without affecting anandamide hydrolysis. It inhibits the transport of AEA with an IC₅₀ of 1 μM in rat neurons and 5 μM in rat astrocytes. In *in vivo* models, AM404 enhances and prolongs exogenous AEA-induced analgesia at a dose of 10 mg/kg.¹

Reference

1. Beltramo, M., Stella, N., Calignano, A., *et al.* Functional role of high-affinity anandamide transport, as revealed by selective inhibition. *Science* **277**, 1094-1096 (1997).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/90060

WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY; NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

MATERIAL SAFETY DATA

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Material Safety Data Sheet, which has been sent *via* email to your institution.

WARRANTY AND LIMITATION OF REMEDY

Cayman Chemical Company makes **no warranty or guarantee** of any kind, whether written or oral, expressed or implied, including without limitation, any warranty of fitness for a particular purpose, suitability and merchantability, which extends beyond the description of the chemicals hereof. Cayman **warrants only** to the original customer that the material will **meet our specifications at the time of delivery.**

Cayman will carry out its delivery obligations with due care and skill. Thus, in no event will Cayman have **any obligation or liability**, whether in tort (including negligence) or in contract, for any direct, indirect, incidental or consequential damages, even if Cayman is informed about their possible existence.

This limitation of liability does not apply in the case of intentional acts or negligence of Cayman, its directors or its employees.

Buyer's **exclusive remedy** and Cayman's sole liability hereunder shall be limited to a **refund** of the purchase price, or at Cayman's option, the **replacement**, at no cost to Buyer, of all material that does not meet our specifications.

Said refund or replacement is conditioned on Buyer giving written notice to Cayman within thirty (30) days after arrival of the material at its destination. Failure of Buyer to give said notice within thirty (30) days shall constitute a waiver by Buyer of all claims hereunder with respect to said material.

For further details, please refer to our Warranty and Limitation of Remedy located on our website and in our catalog.

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