Product Information

N-(3-hydroxyphenyl)-Arachidonoyl amide
Item No. 10007704

CAS Registry No.: 183718-75-4
Formal Name: N-(3-hydroxyphenyl)-5Z,8Z,11Z,14Z-eicosatetraenamide
Synonyms: N-(3-hydroxyphenyl)-Arachidonoyl amide, 3-HPAA
MF: C_{26}H_{37}NO_{2}
FW: 395.6
Purity: ≥98%
Stability: ≥1 year at -20°C
Supplied as: A solution in ethanol
UV/Vis.: λ_{max}: 246, 282 nm

Laboratory Procedures
For long term storage, we suggest that N-(3-hydroxyphenyl)-arachidonoyl amide (3-HPAA) be stored as supplied at -20°C. It should be stable for at least one year.

3-HPAA 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 3-HPAA in these solvents is approximately 20 mg/ml.

3-HPAA is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, the ethanolic solution of 3-HPAA should be diluted with the aqueous buffer of choice. 3-HPAA has a solubility of approximately 0.3 mg/ml in a 1:2 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

3-HPAA is an analog of AM404 (N-(4-hydroxyphenyl)-arachidonoyl amide), which is a selective inhibitor of carrier-mediated transport of arachidonoyl ethanolamide (AEA). 3-HPAA is metabolized by both cyclooxygenase-1 (COX-1) and COX-2 and was found to selectively and irreversibly inhibit COX-2 with an IC_{50} value of 2 μM.

References

Related Products
For a list of related products please visit: www.caymanchem.com/catalog/10007704

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.

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The limitations of liability do 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.

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