Product Name: AM 404
Catalog No.: 1116
Batch No.: 15

CAS Number: 183718-77-6
IUPAC Name: \(N\)-(4-Hydroxyphenyl)-5Z,8Z,11Z,14Z-eicosatetraenamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \(C_{26}H_{37}NO_2\)
Batch Molecular Weight: 395.58
Physical Appearance: White Waxy solid
Solubility:
- ethanol to 50 mM
- DMSO to 50 mM
Storage: Store at -20°C
Batch Molecular Structure:

![Chemical Structure Diagram]

2. ANALYTICAL DATA

TLC: \(R_f = 0.5\) (Dichloromethane:Methanol [9:1])
HPLC: Shows 99.4% purity
\(^1\)H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

<table>
<thead>
<tr>
<th></th>
<th>Carbon</th>
<th>Hydrogen</th>
<th>Nitrogen</th>
</tr>
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<tbody>
<tr>
<td>Theoretical</td>
<td>78.94</td>
<td>9.43</td>
<td>3.54</td>
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<tr>
<td>Found</td>
<td>78.7</td>
<td>9.47</td>
<td>3.52</td>
</tr>
</tbody>
</table>

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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**Product Name:** AM 404  
**Catalog No.:** 1116  
**Batch No.:** 15  

**IUPAC Name:** N-(4-Hydroxyphenyl)-5Z,8Z,11Z,14Z-eicosatetraenamide  

**Description:** Competitive and selective inhibitor of carrier-mediated anandamide transport (IC₅₀ = 1 μM). Does not activate CB₁ receptors or inhibit anandamide hydrolysis but has been shown to activate native and cloned vanilloid receptors (pEC₅₀ = 7.4). Also FABP inhibitor. Active in vivo.

**Physical and Chemical Properties:**  
**Batch Molecular Formula:** C_{26}H_{37}NO₂  
**Batch Molecular Weight:** 395.58  
**Physical Appearance:** White Waxy solid  
**Minimum Purity:** ≥98%  
**Batch Molecular Structure:**

![Molecular Structure](image)

**Storage:** Store at -20°C  
CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

**Solubility & Usage Info:**  
ethanol to 50 mM  
DMSO to 50 mM

**Stability and Solubility Advice:**  
Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath). Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:  
SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.  
SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

**References:**  
Deutsch (2017) A personal retrospective: Elevating Anandamide (AEA) by targeting fatty acid amide hydrolase (FAAH) and the fatty acid binding proteins (FABPs). Front.Pharmacol. 7 370. PMID: 27790143.  