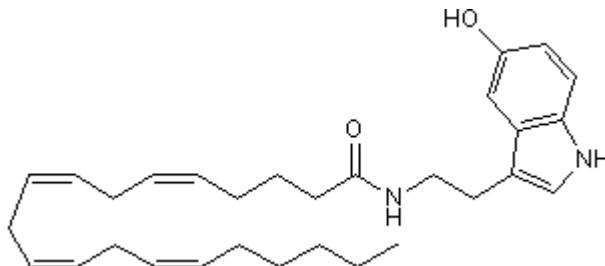


**Certificate of Analysis****Product Name:** Arachidonyl serotonin**Catalog No.:** 2836**Batch No.:** 4**CAS Number:** 187947-37-1**IUPAC Name:** N-[2-(5-Hydroxy-1*H*-indol-3-yl)ethyl]-5,8,11,14-eicosatetraenamide**1. PHYSICAL AND CHEMICAL PROPERTIES****Batch Molecular Formula:** C<sub>30</sub>H<sub>42</sub>N<sub>2</sub>O<sub>2</sub>**Batch Molecular Weight:** 462.67**Physical Appearance:** Pale brown oil**Storage:** Store at -20°C**Batch Molecular Structure:****2. ANALYTICAL DATA****TLC:** R<sub>f</sub> = 0.28 (Ethyl acetate:Petroleum ether [1:1])**HPLC:** Shows >98.6% purity**<sup>1</sup>H NMR:** Consistent with structure**Mass Spectrum:** Consistent with structure

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

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**IUPAC Name:** N-[2-(5-Hydroxy-1H-indol-3-yl)ethyl]-5,8,11,14-eicosatetraenamide

**Description:**

Dual fatty acid amide hydrolase (FAAH) inhibitor/TRPV1 antagonist (IC<sub>50</sub> values are 5.6  $\mu$ M and 37 - 40 nM for FAAH and TRPV1 respectively). Inactive at cPLA<sub>2</sub>, CB<sub>1</sub> or 5-HT receptors. Displays strong analgesic activity against both acute and chronic peripheral pain.

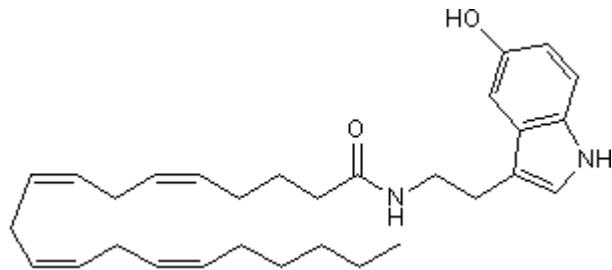
**Physical and Chemical Properties:**

Batch Molecular Formula: C<sub>30</sub>H<sub>42</sub>N<sub>2</sub>O<sub>2</sub>

Batch Molecular Weight: 462.67

Physical Appearance: Pale brown oil

**Batch Molecular Structure:**



**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:**

This compound is supplied pre-dissolved in Methyl acetate (10mg/ml). To change the solvent, evaporate the methyl acetate under a gentle stream of nitrogen and immediately add the chosen solvent (preferably purged with nitrogen beforehand). The solubility of arachidonyl serotonin is greater than 100mM in both DMSO and Ethanol.

**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:**

**Bisogno et al** (1998) Arachidonoylserotonin and other novel inhibitors of fatty acid amide hydrolase. *Biochem.Biophys.Res.Comms.* **248** 515.

**Di Marzo et al** (2004) The endocannabinoid system and its therapeutic exploitation. *Nat.Rev.Drug Discov.* **3** 771. PMID: 15340387.

**Maione et al** (2007) Analgesic actions of *N*-arachidonoyl-serotonin, a fatty acid amide hydrolase inhibitor with antagonistic activity at vanilloid TRPV1 receptors. *Br.J.Pharmacol.* **150** 766. PMID: 17279090.

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