

## Certificate of Analysis

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**Product Name:** *N*-ArachidonylGABA

**Catalog No.:** 1814

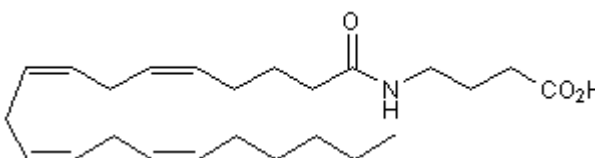
**Batch No.:** 1

CAS Number: 128201-89-8

IUPAC Name: 4-[[[(5Z,8Z,11Z,14Z)-1-Oxo-5,8,11,14-eicosatetraenyl]amino]butanoic acid

### 1. PHYSICAL AND CHEMICAL PROPERTIES

<b>Batch Molecular Formula:</b>	C <sub>24</sub> H <sub>39</sub> NO <sub>3</sub>
<b>Batch Molecular Weight:</b>	389.58
<b>Physical Appearance:</b>	Colourless liquid
<b>Solubility:</b>	Soluble in ethanol (supplied pre-dissolved in anhydrous ethanol, 5mg/ml)
<b>Storage:</b>	Desiccate at -20°C
<b>Batch Molecular Structure:</b>	



### 2. ANALYTICAL DATA

<b>TLC:</b>	R <sub>f</sub> = 0.2 (Diethyl ether)
<b>HPLC:</b>	Shows >99.5% purity
<b><sup>1</sup>H NMR:</b>	Consistent with structure

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

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**Description:**

Arachidonyl amino acid; first isolated from bovine brain. Inhibits pain in vivo.

**Physical and Chemical Properties:**

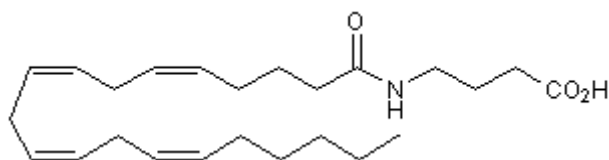
Batch Molecular Formula: C<sub>24</sub>H<sub>39</sub>NO<sub>3</sub>

Batch Molecular Weight: 389.58

Physical Appearance: Colourless liquid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**Storage:** Desiccate 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:**

Soluble in ethanol (supplied pre-dissolved in anhydrous ethanol, 5mg/ml)

This product is supplied dissolved in anhydrous ethanol at a concentration of 5mg/ml

**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:**

**Huang et al** (2001) Identification of a new class of molecules, the arachidonyl amino acids, and characterization of one member that inhibits pain. *J.Biol.Chem.* **276** 42639. PMID: 11518719.

**El Fangour et al** (2003) Hemisynthesis and preliminary evaluation of novel endocannabinoid analogues. *Bioorg.Med.Chem.Lett.* **13** 1977. PMID: 12781177.

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