

Certificate of Analysis

www.tocris.com

Product Name: Anandamide (in Tocrisolve™ 100)

Catalog No.: 1017

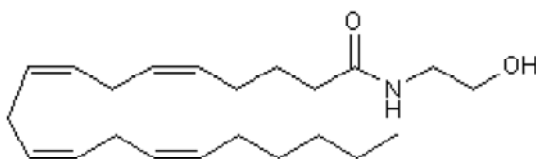
Batch No.: 23

CAS Number: 94421-68-8

IUPAC Name: *N*-(2-Hydroxyethyl)-5*Z*,8*Z*,11*Z*,14*Z*-eicosatetraenamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₂H₃₇NO₂
Batch Molecular Weight: 347.54
Physical Appearance: White emulsion
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.2% purity

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

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Description:

Endogenous cannabinoid and vanilloid receptor agonist, in water-soluble emulsion (for details see Tocrisolve™ 100, Cat. No. 1684). K_i values are 89 and 371 nM for CB₁ and CB₂ receptors respectively; EC₅₀ values are 18, 31 and 27 nM at GPR55, CB₁ and CB₂ respectively; pK_i = 5.68 for rVR1. Also blocks TNF- α -induced NF- κ B activation via direct inhibition of IKK. Available as the pure oil dissolved in ethanol, Anandamine. Tocrisolve Control also available. Please see product datasheet on www.tocris.com for full description.

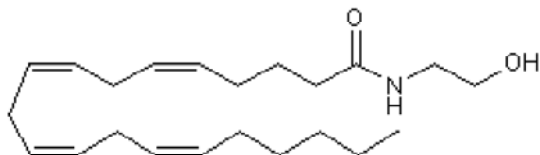
Physical and Chemical Properties:

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Batch Molecular Weight: 347.54

Physical Appearance: White emulsion

Batch Molecular Structure:



Storage: Store at +4°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:

CAUTION - This product must **not** be frozen.

Stability and Solubility Advice:

This product must not be frozen and should be stored at +4°C. Provided that the lid is kept tightly sealed this product will be useable for up to one month.

We recommend that diluted solutions of the Tocrisolve product should be used immediately and must not be frozen.

Other Information:

This product is supplied dissolved at a concentration of 8.54 mg/ml in a soya oil / water (1:4) emulsion. The formulation is emulsified with the block co-polymer, Pluronic F68. It can be diluted with any aqueous medium. This product must not be frozen

INFORMATION FOR CUSTOMERS IN CANADA ONLY

This product is a Schedule II CDSA controlled substance and customers in Canada require an import permit to purchase this material.

References:

Ryberg *et al* (2007) The orphan receptor GPR55 is a novel cannabinoid receptor. *Br.J.Pharmacol.* **152** 1092. PMID: 17876302.

Sancho *et al* (2003) Anandamide inhibits nuclear factor- κ B activation through a cannabinoid receptor-independent pathway. *Mol.Pharmacol.* **63** 429. PMID: 12527815.

Gardiner *et al* (2002) Complex regional haemodynamic effects of anandamide in conscious rats. *Br.J.Pharmacol.* **135** 1889. PMID: 11959791.

Kagaya *et al* (2002) Characterization of the anandamide-induced depolarization of guinea-pig isolated vagus nerve. *Br.J.Pharmacol.* **137** 39. PMID: 12183329.

Ross *et al* (2001) Structure-activity relationship for the endogenous cannabinoid, anandamide, and certain of its analogues at vanilloid receptors in transfected cells and vas deferens. *Br.J.Pharmacol.* **132** 631. PMID: 11159715.

Pertwee (1999) Pharmacology of cannabinoid receptor ligands. *Curr.Med.Chem.* **6** 635. PMID: 10469884.

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