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Print Date: Jan 11th 2016

Certificate of Analysis

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Product Name: **AM 404 (in Tocrisolve™ 100)** **Catalog No.: 1685** **Batch No.: 4**

CAS Number: 198022-70-7

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

1. PHYSICAL AND CHEMICAL PROPERTIES

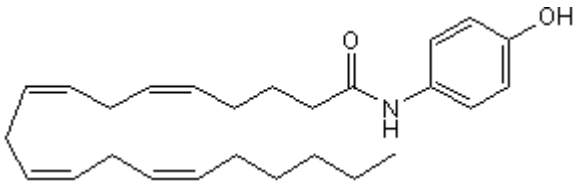
Batch Molecular Formula: $C_{26}H_{37}NO_2$

Batch Molecular Weight: 395.58

Physical Appearance: White emulsion

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.0% purity

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Description:

Competitive and selective inhibitor of carrier-mediated anandamide transport (IC_{50} = 1 µM), in water-soluble emulsion (for details see Tocrisolve™ 100 Cat. No. 1684). Does not activate CB_1 receptors or inhibit anandamide hydrolysis but has been shown to activate native and cloned vanilloid receptors (pEC_{50} = 7.4). Active in vivo. Also available as solid AM 404 (Cat. No. 1116).

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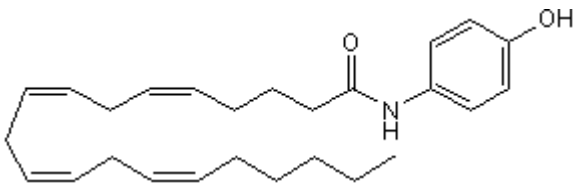

Storage: Store at +4°C

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 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.

References:

Beltramo *et al* (1997) Functional role of high-affinity anandamide transport, as revealed by selective inhibition. Science ***277*** 1094. PMID: 9262477.

Calignano *et al* (1997) Potentiation of anandamide hypotension by the transport inhibitor, AM 404. Eur.J.Pharmacol. ***337*** R1. PMID: 9389389.

Piomelli *et al* (1999) Structural determinants for recognition and translocation by the anandamide transporter. Proc.Natl.Acad.Sci.U.S.A. ***96*** 5802. PMID: 10318965.

Zygmunt *et al* (2000) The anandamide transport inhibitor AM404 activates vanilloid receptors. Eur.J.Pharmacol. ***396*** 39. PMID: 10822052.

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