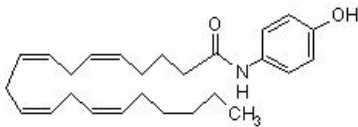


Product datasheet

AM404, Anandamide transport inhibitor ab120095

[1 References](#) [2 Images](#)

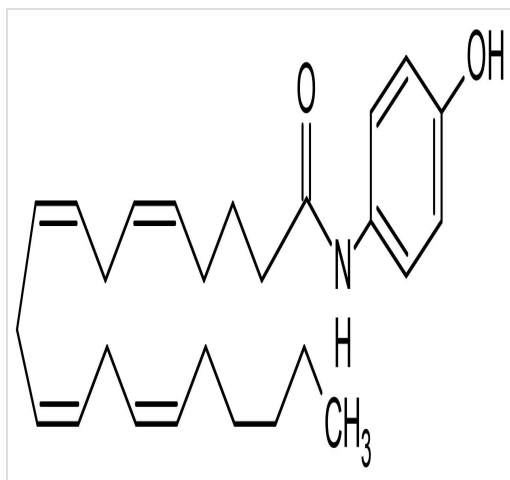
Overview

Product name	AM404, Anandamide transport inhibitor
Description	Anandamide transport inhibitor
Biological description	Competitive and selective anandamide transport inhibitor ($IC_{50} = 1 \mu M$). Active <i>in vivo</i> . Does not activate CB_1 receptors or inhibit anandamide hydrolysis but has been shown to activate vanilloid receptors.
CAS Number	198022-70-7
Chemical structure	

Properties

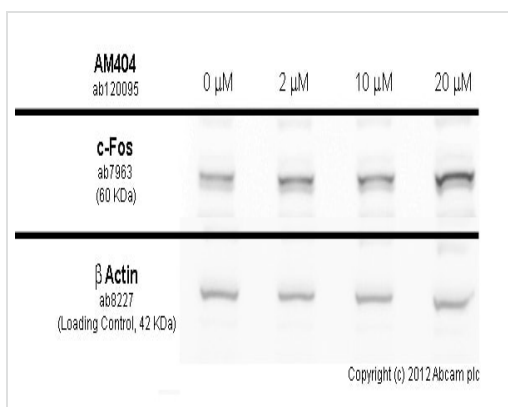
Chemical name	(5Z,8Z,11Z,14Z)-N-(4-Hydroxyphenyl)icosa-5,8,11,14-tetraenamide
Molecular weight	395.58
Molecular formula	$C_{26}H_{37}NO_2$
PubChem identifier	6604822
Storage instructions	Store at $-20^{\circ}C$. Store under desiccating conditions. The product can be stored for up to 12 months.
Solubility overview	Soluble in DMSO to 50 mM and in ethanol to 50 mM
Handling	<p>Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at $-20^{\circ}C$. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.</p> <p>Need more advice on solubility, usage and handling? Please visit our frequently asked questions (FAQ) page for more details.</p>
SMILES	<chem>Oc1ccc(NC(=O)CCCC/C=CC/C=CC/C=CC/C=CCCCC)cc1</chem>
Source	Synthetic

Images



Chemical Structure - AM404, Anandamide transport inhibitor (ab120095)

2D chemical structure image of ab120095, AM404, Anandamide transport inhibitor



Functional Studies - AM404, Anandamide transport inhibitor (ab120095)

SH-SY5Y cells were incubated at 37°C for 30 minutes with vehicle control (0 μM) and varied concentrations of AM404 (ab120095).

Increased expression of c-Fos in SH-SY5Y cells correlates with an increase in AM404 concentration, as described in literature.

Whole cell lysates were prepared with RIPA buffer (containing protease inhibitors and sodium orthovanadate), 20 μg of each were loaded on the gel and the WB was run under reducing conditions. After transfer the membrane was blocked for an hour using 5% BSA before being incubated with **ab7963** at 1 μg/ml and **ab8227** at 1 μg/ml overnight at 4°C. Antibody binding was detected using an anti-rabbit antibody conjugated to HRP (**ab97051**) at 1/10000 dilution and visualised using ECL development solution.

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