Product overview

Name: AM 404
Cat No: HB1174
Short description: Selective, competitive carrier-mediated anandamide transport inhibitor
Biological description: Selective and competitive carrier-mediated anandamide transport inhibitor (IC\textsubscript{50} = 1 µM). Activates vanilloid receptors. Shows vasodilator, neuroprotective and anxiolytic actions mediated by 5-HT\textsubscript{1A} receptors.
Biological action: Inhibitor
Purity: >98%

Properties

Chemical name: \(N\)-(4-Hydroxyphenyl)-5Z,8Z,11Z,14Z-eicosatetraenamide
Molecular Weight: 395.58
Chemical structure:

![Chemical structure](image)

Molecular Formula: \(C_{26}H_{37}NO_2\)
CAS Number: 198022-70-7
PubChem identifier: 6604822
SMILES: CCCCC/C=C/C=C/C=C/C=C/C=C/C=CCC(=O)NC1=CC=C(O)C=C1
InChiKey: IJBZOOZRAXHERC-DOFZRALJSA-N

Storing and Using Your Product

Storage instructions: -20°C
Solubility overview: Soluble in ethanol (50mM) or DMSO (50mM)
Important: This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

References for AM 404

Delta9-tetrahydrocannabinol (THC) and AM 404 protect against cerebral ischaemia in gerbils through a mechanism involving cannabinoid and opioid receptors.

PubMedID: 17965746
5-HT1A receptors are involved in the anxiolytic effect of Delta9-tetrahydrocannabinol and AM 404, the anandamide transport inhibitor, in Sprague-Dawley rats.


PubMedID: 17116299

The anandamide transport inhibitor AM404 activates vanilloid receptors.


PubMedID: 10822052

Mechanisms of endocannabinoid inactivation: biochemistry and pharmacology.


PubMedID: 11408519