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DATASHEET

AM 404

Product overview

Name	AM 404
Cat No	HB1174
Biological action	Inhibitor
Purity	>98%
Description	Selective, competitive carrier-mediated anandamide transport inhibitor

Images

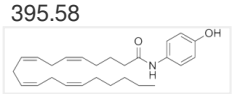
Biological Data

Biological description	Selective and competitive carrier-mediated anandamide transport inhibitor (IC_{50} = 1 µM). Activates vanilloid receptors. Shows vasodilator, neuroprotective and anxiolytic actions mediated by 5-HT_{1A} receptors.

Solubility & Handling

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.

Chemical Data

Chemical name	*N*-(4-Hydroxyphenyl)-5*Z*,8*Z*,11*Z*,14*Z*-eicosatetraenamide
Molecular Weight	395.58
Chemical structure	
Molecular Formula	$C_{26}H_{37}NO_2$
CAS Number	183718-77-6
PubChem identifier	6604822
SMILES	CCCCC\C=C/C\C=C/C\C=C/C\C=C/CCCC(=O)NC1=CC=C(O)C=C1
InChiKey	IJBZOOZRAXHERC-DOFZRALJSA-N

References

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

Zani A *et al* (2007) Br J Pharmacol 152(8)
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.

Braida D *et al* (2007) Eur J Pharmacol 555(2-3)
PubMedID 17116299

The anandamide transport inhibitor AM404 activates vanilloid receptors.

Zygmunt PM *et al* (2000) Eur J Pharmacol 396(1)
PubMedID 10822052

Mechanisms of endocannabinoid inactivation: biochemistry and pharmacology.

Giuffrida A *et al* (2001) J Pharmacol Exp Ther 298(1)
PubMedID 11408519