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## DATASHEET

AM 404

### Product overview

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

### Images



### Biological Data

<b>Biological description</b>	Selective and competitive carrier-mediated anandamide transport inhibitor ( $IC_{50} = 1 \mu M$ ). Activates vanilloid receptors. Shows vasodilator, neuroprotective and anxiolytic actions mediated by $5-HT_{1A}$ receptors.
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### Solubility & Handling

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

### Chemical Data

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

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