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## DATASHEET

N-Arachidonyl-L-alanine

### Product overview

<b>Name</b>	N-Arachidonyl-L-alanine
<b>Cat No</b>	HB0440
<b>Description</b>	GLYT2 / GLYT2(EL2) inhibitor
<b>Biological action</b>	Inhibitor
<b>Purity</b>	>98%

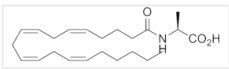
### Biological Data

<b>Biological description</b>	GLYT2 and GLYT2(EL2) inhibitor (IC <sub>30</sub> values are 5.9 and 6.0 μM). Displays little or no activity at GLYT1 (IC <sub>30</sub> = >30 μM). Inhibits pain.
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### Solubility & Handling

<b>Storage instructions</b>	-20 °C (desiccate)
<b>Solubility overview</b>	Soluble in DMSO (50mM) or ethanol (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>	2-(Icosa-5,8,11,14-tetraenoylamino)propanoic acid
<b>Molecular Weight</b>	375.6
<b>Chemical structure</b>	
<b>Molecular Formula</b>	C <sub>23</sub> H <sub>37</sub> NO <sub>3</sub>
<b>CAS Number</b>	401941-73-9
<b>PubChem identifier</b>	53394356
<b>SMILES</b>	<chem>C[C@@H](NC(=O)CCC/C=C\C/C=C\C/C=C\C/C=C\CCCC)C(=O)O</chem>

### References

#### Extracellular loops 2 and 4 of GLYT2 are required for N-arachidonylglycine inhibition of glycine transport.

Edington AR *et al* (2009) J Biol Chem 284(52)

**PubMedID** [19875446](#)

#### Identification of a new class of molecules, the arachidonyl amino acids, and characterization of one member that inhibits pain.

Huang SM *et al* (2001) J Biol Chem 276(46)

**PubMedID** [11518719](#)

