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DATASHEET

N-Arachidonyl-L-alanine

Product overview

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

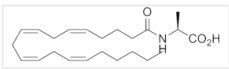
Biological Data

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

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

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](#)

