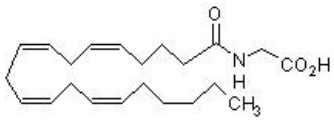
abcam

Product datasheet

N-Arachidonylglycine (NAGly), GPR18 agonist ab120346

1 References 2 Images

Overview

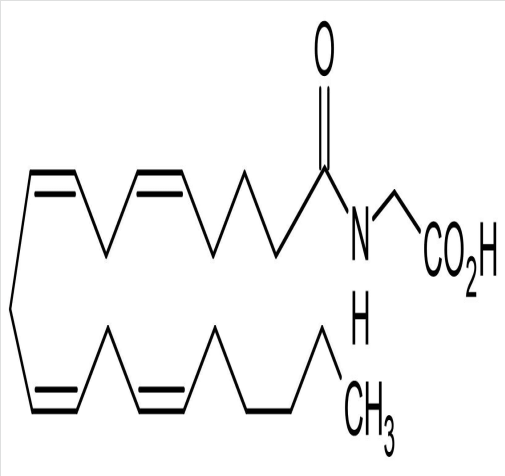
Product name	N-Arachidonylglycine (NAGly), GPR18 agonist
Description	T-type Ca^{2+} channel blocker. Endogenous GLYT2 inhibitor.
Biological description	Endogenous inhibitor of GLYT2 with little or no effect on GLYT1 and is analgesic in rat models of neuropathic and inflammatory pain. Anandamide-like compound, with little affinity at CB_1 receptors, VR1 receptors and anandamide transporters. Potent inhibitor of T-type Ca^{2+} channels with little activity on anandamide-sensitive TRPV1 and TASK1 currents and high-voltage-activated (HVA) $Ca_V1.2$, $Ca_V2.2$, $Na_V1.7$, and $Na_V1.8$ currents.
CAS Number	179113-91-8
Chemical structure	

Properties

Chemical name	*N*-(1-Oxo-5*Z*,8*Z*,11*Z*,14*Z*-eicosatetraenyl)glycine
Molecular weight	361.52
Molecular formula	$C_{22}H_{35}NO_3$
PubChem identifier	5283389
Storage instructions	Store at -20°C. Store under desiccating conditions. The product can be stored for up to 12 months.
Solubility overview	Soluble in ethanol to 100 mM
Handling	Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour. Need more advice on solubility, usage and handling? Please visit our **frequently asked questions (FAQ) page** for more details.

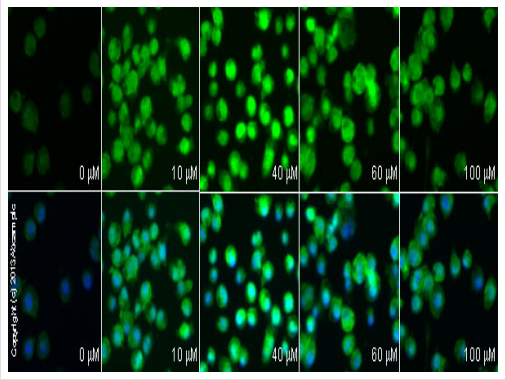
SMILES	O=C(CCC/C=CC/C=CC/C=CC/C=CCCCCC)NCC(=O)O
Source	Synthetic

Images



Chemical Structure - N-Arachidonylglycine (NAGly), GPR18 agonist (ab120346)

2D chemical structure image of ab120346, N-Arachidonylglycine (NAGly), GPR18 agonist



Functional Studies - N-Arachidonylglycine (NAGly), GPR18 agonist (ab120346)

ab32557 staining p38 (phospho T180 + Y182) in RAW 264.7 cells treated with N-Arachidonylglycine (ab120346), by ICC/IF. Increase in expression of p38 (phospho T180 + Y182) correlates with increased concentration of N-Arachidonylglycine, as described in literature.

The cells were incubated at 37°C for 1h in media containing different concentrations of ab120346 (N-Arachidonylglycine) in DMSO, fixed with 4% formaldehyde for 10 minutes at room temperature and blocked with PBS containing 10% goat serum, 0.3 M glycine, 1% BSA and 0.1% tween for 2h at room temperature. Staining of the treated cells with **ab32557** (1/100 dilution) was performed overnight at 4°C in PBS containing 1% BSA and 0.1% tween. A DyLight 488 goat anti-rabbit polyclonal antibody (**ab96899**) at 1/250 dilution was used as the secondary antibody. Nuclei were counterstained with DAPI and are shown in blue.

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