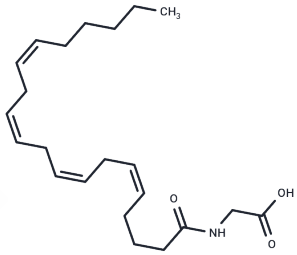
Data Sheet (Cat.No.T23040)

TargetMol

N-Arachidonylglycine

Chemical Properties



CAS No. : 179113-91-8

Formula: C22H35NO3

Molecular Weight: 361.52

Storage: Store at low temperature,Keep away from direct sunlight
Pure form: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	N-Arachidonylglycine (NA-Gly) is a heat-dependent circulating metabolite with anti-inflammatory, anticancer, antidiabetic and antioxidant activities.
Targets(IC50)	Antioxidant,Endogenous Metabolite,GlyT
In vitro	In HEK293-GPR18 cells, N-arachidonoylglycine (0.1 nM - 100 μM; 5 minutes) promotes MAPK activation[1].
In vivo	In rats, oral administration of N-arachidonylglycine (10 mg/kg) inhibits FAAH, leading to a reduction in the hydrolytic degradation of anandamide[3].

Solubility Information

Solubility	DMSO: 150 mg/mL (414.91 mM),Sonication is recommended. Ethanol: Soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.3 mg/mL (9.13 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7661 mL	13.8305 mL	27.661 mL
5 mM	0.5532 mL	2.7661 mL	5.5322 mL
10 mM	0.2766 mL	1.383 mL	2.7661 mL
50 mM	0.0553 mL	0.2766 mL	0.5532 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

McHugh D, et al. Δ(9) -Tetrahydrocannabinol and N-arachidonyl glycine are full agonists at GPR18 receptors and induce migration in human endometrial HEC-1B cells. Br J Pharmacol. 2012;165(8):2414-2424.
Edington AR, et al. Extracellular loops 2 and 4 of GLYT2 are required for N-arachidonylglycine inhibition of glycine transport. J Biol Chem. 2009;284(52):36424-36430.
Burstein SH. N-Acyl Amino Acids (Elmiric Acids): Endogenous Signaling Molecules with Therapeutic Potential. Mol Pharmacol. 2018;93(3):228-238.