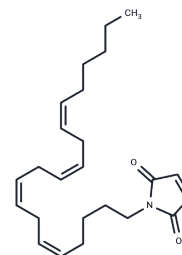


N-Arachidonyl Maleimide

Chemical Properties

CAS No. :	876305-42-9
Formula:	C ₂₄ H ₃₅ NO ₂
Molecular Weight:	369.54
Storage:	Powder: -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-Arachidonyl maleimide, a potent and irreversible monoacylglycerol lipase (MAGL) inhibitor, has an IC ₅₀ value of 140 nM [1].
Targets(IC ₅₀)	Others, MAGL
In vitro	N-Arachidonyl maleimide, a presumed MAGL inhibitor, is utilized for adjusting the impact of 2-arachidonyl glycerol (2-AG). It elevates endogenous 2-AG levels in the brain and inhibits cerebellar membrane-mediated 2-AG degradation effectively at a low concentration (IC ₅₀ , 140 nM) [1].
In vivo	2-AG (1, 3, and 10 mg/kg) produces significant and dose-dependent hypothermia, inhibition of locomotor activity, antinociception, and catalepsy when combined with a 1 mg/kg dose of N-Arachidonyl maleimide [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7061 mL	13.5303 mL	27.0607 mL
5 mM	0.5412 mL	2.7061 mL	5.4121 mL
10 mM	0.2706 mL	1.353 mL	2.7061 mL
50 mM	0.0541 mL	0.2706 mL	0.5412 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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