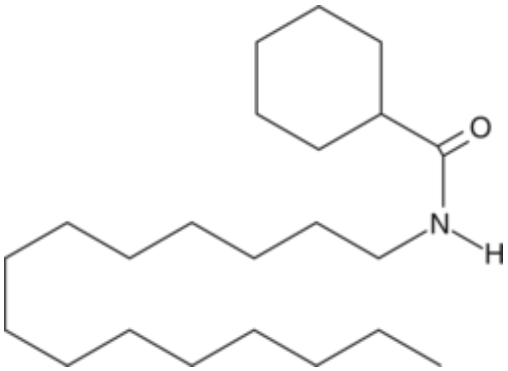
Product Data Sheet

Product Name: N-Cyclohexanecarbonylpentadecylamine
Cat. No.: GC44339

Chemical Properties

Cas. No.	702638-84-4		
SMILES	CCCCCCCCCCCCCCCNC(=O)C1CCCCC1		
Formula	C22H43NO	M.Wt	337.6
Solubility	Ethanol: 2 mg/ml	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		

Structure



Background

Numerous analogs of fatty acyl ethanolamides potentiate the intrinsic biological activity of endocannabinoids. This potentiation is ascribed either to inhibition of AEA reuptake into neurons, or inhibition of fatty acid amide hydrolase (FAAH) within the neurons. However, Ueda has recently cloned another amidase, the acidic palmitoyl ethanolamidase (PEAase) that promotes the hydrolysis of palmitoylethanolamide. N-Cyclohexanecarbonylpentadecylamine is a selective inhibitor of acidic

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PEAase, inhibiting the enzyme with an IC50 of 4.5 µM, while failing to inhibit FAAH even at 100 µM.