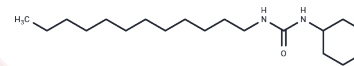


1-Cyclohexyl-3-dodecyl urea

Chemical Properties

CAS No. : 402939-18-8
 Formula: C₁₉H₃₈N₂O
 Molecular Weight: 310.52
 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	1-Cyclohexyl-3-dodecyl urea (NCND) is a highly selective soluble epoxide hydrolase (sEH) inhibitor.
Targets(IC50)	Epoxide Hydrolase
In vivo	1-Cyclohexyl-3-dodecyl urea had antihypertensive properties.
Animal Research	Animal Model:Male Sprague-Dawley rats. Dosage:3mg/day. Administration: Intraperitoneal injection; 4 days

Solubility Information

Solubility	Ethanol: 16.67 mg/mL (53.68 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% EtOH+90% Corn Oil: 1.5 mg/mL (4.83 mM),Sonication is recommended. <i>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.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.2204 mL	16.102 mL	32.204 mL
5 mM	0.6441 mL	3.2204 mL	6.4408 mL
10 mM	0.322 mL	1.6102 mL	3.2204 mL
50 mM	0.0644 mL	0.322 mL	0.6441 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

Imig JD, et al. Soluble epoxide hydrolase inhibition lowers arterial blood pressure in angiotensin II hypertension. Hypertension. 2002 Feb;39(2 Pt 2):690-4.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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