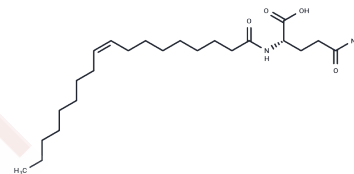


## N-Oleoyl Glutamine

## Chemical Properties

CAS No. :	247150-73-8
Formula:	C <sub>23</sub> H <sub>42</sub> N <sub>2</sub> O <sub>4</sub>
Molecular Weight:	410.59
Storage:	Store at low temperature Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	N-Oleoyl Glutamine (Oleoyl-L-glutamine) is an N-acyl amino acid involved in the regulation of PM20D1 and antagonizes TRPV1 of the transient receptor potential (TRP) calcium channel.
Targets(IC50)	TRP/TRPV Channel

## Solubility Information

Solubility	DMF: 15 mg/mL (36.53 mM),Sonication is recommended. DMSO: 15 mg/mL (36.53 mM),Sonication is recommended. Ethanol: 1 mg/mL (2.44 mM),Sonication is recommended. Ethano: 1 mg/mL (2.44 mM),Sonication is recommended. ( < 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4355 mL	12.1776 mL	24.3552 mL
5 mM	0.4871 mL	2.4355 mL	4.871 mL
10 mM	0.2436 mL	1.2178 mL	2.4355 mL
50 mM	0.0487 mL	0.2436 mL	0.4871 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

Jonathan Z Long, et al. Ablation of PM20D1 reveals N-acyl amino acid control of metabolism and nociception. Proc Natl Acad Sci U S A. 2018 Jul 17;115(29):E6937-E6945.

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Yoshinaga N, Alborn HT, Nakanishi T, Suckling DM, Nishida R, Tumlinson JH, Mori N. Fatty acid-amino acid conjugates diversification in lepidopteran caterpillars. J Chem Ecol. 2010 Mar;36(3):319-25.

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