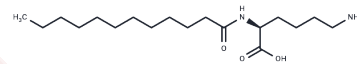


Lauroyl lysine

Chemical Properties

CAS No. :	52315-75-0
Formula:	C ₁₈ H ₃₆ N ₂ O ₃
Molecular Weight:	328.49
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	Lauroyl lysine (N6-Lauroyl-L-lysine) functions as skin and hair conditioning agents and as surfactants-cleansing agents in personal care products.
Targets(IC50)	Others,Amino Acids and Derivatives

Solubility Information

Solubility	H ₂ O: < 1 mg/mL (insoluble or slightly soluble) DMSO: < 1 mg/mL (insoluble or slightly soluble), (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.0442 mL	15.2212 mL	30.4423 mL
5 mM	0.6088 mL	3.0442 mL	6.0885 mL
10 mM	0.3044 mL	1.5221 mL	3.0442 mL
50 mM	0.0609 mL	0.3044 mL	0.6088 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

- Koreishi M, et al. Efficient Nepsilon-lauroyl-L-lysine production by recombinant epsilon-lysine acylase from *Streptomyces mobaraensis*. *J Biotechnol.* 2009 May 20;141(3-4):160-5.
- Suzuki M, Abe T, Hanabusa K. Low-molecular-weight gelators based on N(alpha)-acetyl-N(epsilon)-dodecyl-L-lysine and their amphiphilic gelation properties. *J Colloid Interface Sci.* 2010 Jan 1;341(1):69-74.
- Pérez L, et al. Cationic surfactants from lysine: synthesis, micellization and biological evaluation. *Eur J Med Chem.* 2009 May;44(5):1884-92.
- Suzuki M, et al. Supramolecular gels formed by amphiphilic low-molecular-weight gelators of N alpha,N epsilon-diacyl-L-lysine derivatives. *Chemistry.* 2008;14(7):2133-44.

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