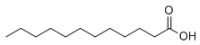
Lauric acid

Cat. No.:	HY-Y0366
CAS No.:	143-07-7
Molecular Formula:	$C_{12}H_{24}O_2$
Molecular Weight:	200.32
Target:	Endogenous Metabolite; Bacterial
Pathway:	Metabolic Enzyme/Protease; Anti-infection
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 250 mg/mL (1248.00 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	4.9920 mL	24.9601 mL	49.9201 mL
	5 mM	0.9984 mL	4.9920 mL	9.9840 mL
	10 mM	0.4992 mL	2.4960 mL	4.9920 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: **10% DMSO >> 90% (20% SBE-β-CD in saline)**
   Solubility: ≥ 2.08 mg/mL (10.38 mM); Clear solution
2. Add each solvent one by one: **10% DMSO >> 90% corn oil**
   Solubility: ≥ 2.08 mg/mL (10.38 mM); Clear solution

BIOLOGICAL ACTIVITY

Description	Lauric acid is a middle chain-free fatty acid with strong bactericidal properties. The EC_{50}s for P. acnes, S.aureus, S. epidermidis, are 2, 6, 4 μg/mL, respectively.
IC_{50} & Target	Human Endogenous Metabolite

REFERENCES

[1]. Nakatsuji T, et al. Antimicrobial property of lauric acid against Propionibacterium acnes: its therapeutic potential for inflammatory acne vulgaris. J Invest

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA