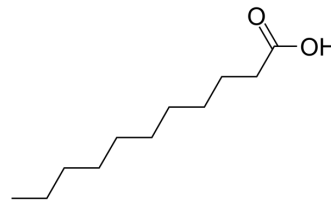


Undecanoic acid

Cat. No.:	HY-W004282		
CAS No.:	112-37-8		
Molecular Formula:	C ₁₁ H ₂₂ O ₂		
Molecular Weight:	186.29		
Target:	Fungal; Endogenous Metabolite		
Pathway:	Anti-infection; Metabolic Enzyme/Protease		
Storage:	Pure form	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (536.80 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
Preparing Stock Solutions	1 mM	5.3680 mL	26.8399 mL	53.6797 mL
	5 mM	1.0736 mL	5.3680 mL	10.7359 mL
	10 mM	0.5368 mL	2.6840 mL	5.3680 mL
Please refer to the solubility information to select the appropriate solvent.				
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (13.42 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (13.42 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (13.42 mM); Clear solution 			

BIOLOGICAL ACTIVITY

Description	Undecanoic acid (Undecanoate) is a monocarboxylic acid with antimycotic property, which inhibits the production of exocellular keratinase, lipase and the biosynthesis of several phospholipids in <i>T. rubrum</i> ^[1] .
IC₅₀ & Target	Human Endogenous Metabolite

REFERENCES

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- [1]. Hornung B, et al. Medium chain length fatty acids stimulate triacylglycerol synthesis in tissue culture cells. *Biochem Pharmacol.* 1992 Jan 22;43(2):175-81.
- [2]. Das SK, et al. Effect of undecanoic acid on phospholipid metabolism in *Trichophyton rubrum*. *Sabouraudia.* 1982 Dec;20(4):267-72.
- [3]. Das SK, et al. Effect of undecanoic acid on the production of exocellular lipolytic and keratinolytic enzymes by undecanoic acid-sensitive and -resistant strains of *Trichophyton rubrum*. *Sabouraudia.* 1982 Sep;20(3):179-84.
- [4]. Coppa M, et al. Effect of a hay-based diet or different upland grazing systems on milk volatile compounds. *J Agric Food Chem.* 2011 May 11;59(9):4947-54.
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Caution: Product has not been fully validated for medical applications. For research use only.

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