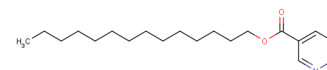


## Myristyl nicotinate

### Chemical Properties

CAS No.:	273203-62-6
Formula:	C <sub>20</sub> H <sub>33</sub> NO <sub>2</sub>
Molecular Weight:	319.48
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



### Biological Description

Description	Myristyl nicotinate is an ester prodrug and a lipophilic derivative of Nicotinic acid.
Targets(IC <sub>50</sub> )	Others: None
In vivo	Myristyl nicotinate is an ester prodrug under development for delivery of nicotinic acid to skin for treatment and prevention of conditions that involve skin barrier impairment such as chronic photodamage and atopic dermatitis or for mitigating skin barrier impairment that results from therapy such as retinoids or steroids. The formulation stability of myristyl nicotinate is crucial because even small amounts of free nicotinic acid cause skin flushing, an effect that is not harmful but would severely limit tolerability[1].

### Solubility Information

Solubility	DMSO: 9.62 mg/mL (30.11 mM) ( < 1 mg/ml refers to the product slightly soluble or insoluble)
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#### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.13 mL	15.65 mL	31.301 mL
5 mM	0.626 mL	3.13 mL	6.26 mL
10 mM	0.313 mL	1.565 mL	3.13 mL
50 mM	0.063 mL	0.313 mL	0.626 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

#### Reference

- Jacobson MK, et al. Effect of myristyl nicotinate on retinoic acid therapy for facial photodamage. *Exp Dermatol*. 2007 Nov;16(11):927-35.
- Catz P, et al. Simultaneous determination of myristyl nicotinate, nicotinic acid, and nicotinamide in rabbit plasma by liquid chromatography-tandem mass spectrometry using methyl ethyl ketone as a deproteinization solvent. *J Chromatogr B Analyt Technol Biomed Life Sci*. 2005 Dec 27;829(1-2):123-35.

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