

## Isostearic acid

## Chemical Properties

CAS No. : 2724-58-5

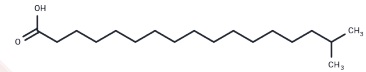
Formula: C<sub>18</sub>H<sub>36</sub>O<sub>2</sub>

Molecular Weight: 284.48

Keep away from direct sunlight

Storage: Pure form: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Isostearic acid (Isooctadecanoic acid) is an active ingredient in imiquimod formulations that promotes the entry of imiquimod or peripherally secreted cytokines into the brain, and can be used to induce psoriasis-like disease models.
Targets(IC50)	Apoptosis,Others,Interleukin

## Solubility Information

Solubility	DMSO: 80 mg/mL (281.21 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.3 mg/mL (11.6 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	3.5152 mL	17.5759 mL	35.1519 mL
5 mM	0.703 mL	3.5152 mL	7.0304 mL
10 mM	0.3515 mL	1.7576 mL	3.5152 mL
50 mM	0.0703 mL	0.3515 mL	0.703 mL

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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

Riazi, et al. Life Cycle Environmental and Cost Implications of Isostearic Acid Production for Pharmaceutical and Personal Care Products. ACS Sustainable Chemistry & Engineering 7.18(2019).

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