

## Undecane

## Chemical Properties

CAS No. :	1120-21-4
Formula:	C <sub>11</sub> H <sub>24</sub>
Molecular Weight:	156.31
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	Undecane is a high-purity biochemical reagent widely used in biochemical experiments and drug synthesis research.
Targets(IC50)	Others,NF-κB,Histamine Receptor,Interleukin,p38 MAPK,PKA,TNF

## Solubility Information

Solubility	DMSO: 80 mg/mL (511.8 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: 5 mg/mL (31.99 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

	1mg	5mg	10mg
1 mM	6.3975 mL	31.9877 mL	63.9754 mL
5 mM	1.2795 mL	6.3975 mL	12.7951 mL
10 mM	0.6398 mL	3.1988 mL	6.3975 mL
50 mM	0.128 mL	0.6398 mL	1.2795 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

Qin G F , Liang H B , Liu W X , et al. Bicyclo [6.3.0] Undecane Sesquiterpenoids: Structures, Biological Activities, and Syntheses[J]. Molecules, 2019, 24(21):3912.

Choi D, Kang W, Park T. Anti-Allergic and Anti-Inflammatory Effects of Undecane on Mast Cells and Keratinocytes. Molecules. 2020;25(7):1554. Published 2020 Mar 28.

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