

10-Undecen-1-ol

Chemical Properties

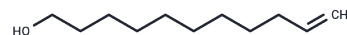
CAS No. : 112-43-6

Formula: C₁₁H₂₂O

Molecular Weight: 170.29

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	10-Undecen-1-ol is converted from ricinoleic acid. 10-Undecen-1-ol can be used as a comonomer for the introduction of functional groups[1][2].
Targets(IC50)	Others,Drug Metabolite
In vitro	Cobalt-catalyzed step-growth polymerization of undec-10-en-1-ol and CO produces aliphatic polyesters (Mn > 10(4) g mol ⁻¹) derived entirely from renewable resources[1].

Solubility Information

Solubility	DMSO: 55 mg/mL (322.98 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: 2 mg/mL (11.74 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	5.8723 mL	29.3617 mL	58.7234 mL
5 mM	1.1745 mL	5.8723 mL	11.7447 mL
10 mM	0.5872 mL	2.9362 mL	5.8723 mL
50 mM	0.1174 mL	0.5872 mL	1.1745 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

Quinzler D, et al. Renewable resource-based poly(dodecyloate) by carbonylation polymerization. Chem Commun (Camb). 2009;(36):5400-5402.

Jonas U. A, et al. Functional Beads of Polyvinylpyrrolidone: Promising Support Materials for Solid-Phase Synthesis.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481