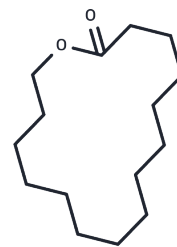


ω -Pentadecalactone

Chemical Properties

CAS No. :	106-02-5
Formula:	C ₁₅ H ₂₈ O ₂
Molecular Weight:	240.38
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	ω -Pentadecalactone (Exaltolide) is the fragrance structural group macrocyclic lactone and lactide derivatives used as a fragrance ingredient.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 55 mg/mL (228.8 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: 2 mg/mL (8.32 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	4.1601 mL	20.8004 mL	41.6008 mL
5 mM	0.832 mL	4.1601 mL	8.3202 mL
10 mM	0.416 mL	2.080 mL	4.1601 mL
50 mM	0.0832 mL	0.416 mL	0.832 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

D McGinty, et al. Fragrance material review on ω -pentadecalactone. Food Chem Toxicol. 2011 Dec;49 Suppl 2: S193-201.

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