

Gamma-decalactone

Chemical Properties

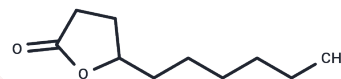
CAS No. : 706-14-9

Formula: C₁₀H₁₈O₂

Molecular Weight: 170.25

Storage: Store under nitrogen, Keep away from direct sunlight
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	Gamma-decalactone (Decan-4-olide) is a food additive with a fruity peach flavor. Ricinoleic acid (12-hydroxy-octadec-9-enoic acid) is often used as a substrate in the production of γ -Decalactone.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 27.5 mg/mL (161.53 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 (11.75 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	5.8737 mL	29.3686 mL	58.7372 mL
5 mM	1.1747 mL	5.8737 mL	11.7474 mL
10 mM	0.5874 mL	2.9369 mL	5.8737 mL
50 mM	0.1175 mL	0.5874 mL	1.1747 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

Braga, A, Belo, I. Biotechnological production of γ -decalactone, a peach like aroma, by *Yarrowia lipolytica*[J]. World Journal of Microbiology & Biotechnology, 32(10):169.

Andrade D P D , Carvalho B F , Schwan R F , et al. Production of γ -decalactone by yeast strains under different conditions[J]. Food Technology & Biotechnology, 2017, 55(2):225-230.

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