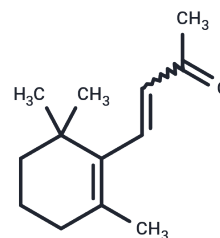


β -Ionone

Chemical Properties

CAS No. :	14901-07-6
Formula:	C ₁₃ H ₂₀ O
Molecular Weight:	192.3
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	β -Ionone (β -ionone) is an end-ring analog of β -carotenoids which widely distributed in fruit and vegetables, with anti-proliferative, anti-metastatic
Targets(IC50)	Apoptosis
In vivo	β -ionone-based compounds possessing anti-proliferative, anti-metastatic and apoptosis induction activities may enable the discovery of compounds which can be used in combination regimes thus overcoming tumor resistance to conventional anticancer agents[1]

Solubility Information

Solubility	DMSO: 250 mg/mL (1300.05 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 (10.4 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	5.2002 mL	26.001 mL	52.0021 mL
5 mM	1.040 mL	5.2002 mL	10.4004 mL
10 mM	0.520 mL	2.6001 mL	5.2002 mL
50 mM	0.104 mL	0.520 mL	1.040 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

Ansari M , Emami S . β -Ionone and its analogs as promising anticancer agents[[J](#)]. European Journal of Medicinal Chemistry, 2016, 123:141-154.

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