

Kinetin

Chemical Properties

CAS No. : 525-79-1

Formula: C₁₀H₉N₅O

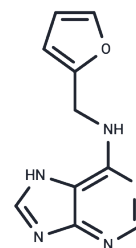
Molecular Weight: 215.21

Store at low temperature

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

HCl



Biological Description

Description	Kinetin (N6-Furfuryladenine), a type of cytokinin, has plant growth regulation effects.
Targets(IC50)	Others
In vivo	In plant tissue culture, Kinetin is commonly employed to induce the formation of callus tissue.

Solubility Information

Solubility	Ethanol: < 1 mg/mL (insoluble or slightly soluble), H ₂ O: < 1 mg/mL (insoluble or slightly soluble), DMSO: 34.14 mg/mL (158.64 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: 1 mg/mL (4.65 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	4.6466 mL	23.2331 mL	46.4662 mL
5 mM	0.9293 mL	4.6466 mL	9.2932 mL
10 mM	0.4647 mL	2.3233 mL	4.6466 mL
50 mM	0.0929 mL	0.4647 mL	0.9293 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

Chiu PC, et al. J Cosmet Dermatol, 2007, 6(4), 243-249.

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