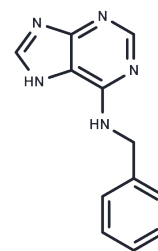


6-Benzylaminopurine

Chemical Properties

CAS No. :	1214-39-7
Formula:	C ₁₂ H ₁₁ N ₅
Molecular Weight:	225.25
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	6-Benzylaminopurine (6-BAP), benzyl adenine or BAP is a first-generation synthetic cytokinin that elicits plant growth and development responses, setting blossoms and stimulating fruit richness by stimulating cell division. It is an inhibitor of respiratory kinase in plants, and increases post-harvest life of green vegetables.
Targets(IC50)	Others,Endogenous Metabolite
In vitro	6-BA promotes plant branching, increases resistance to disease, drought, cold, or high salt levels and increases flowering and fruit set by decreasing flower drop[1].

Solubility Information

Solubility	Ethanol: < 1 mg/mL (insoluble or slightly soluble), DMSO: 96 mg/mL (426.19 mM),Sonication is recommended. H2O: < 1 mg/mL (insoluble or slightly soluble), (< 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 (8.88 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	4.4395 mL	22.1976 mL	44.3951 mL
5 mM	0.8879 mL	4.4395 mL	8.879 mL
10 mM	0.444 mL	2.2198 mL	4.4395 mL
50 mM	0.0888 mL	0.444 mL	0.8879 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

Plant Growth Hormones, 6-Benzylaminopurine (6-BA).

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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