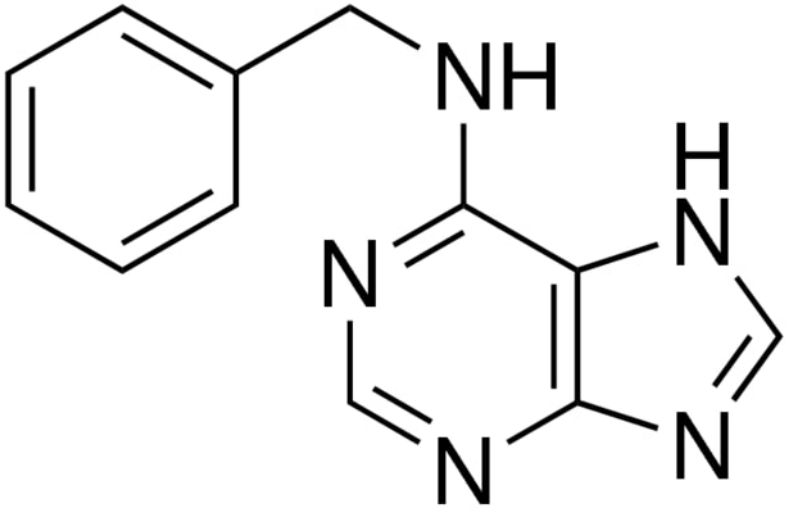
6-Benzylaminopurine solution (1.0 mg/mL)

NB-42-01973-100ml

6-Benzylaminopurine solution (1.0 mg/mL)

Cat# NB-42-01973-100ml Size : 100ml



Description

6-Benzylaminopurine is a plant growth regulator that belongs to the class of first generation synthetic cytokinin used in agriculture.

Product Information

Synonyms:	6-BAP, BA, N6-Benzyladenine
Molecular Formula:	$C_{12}H_{11}N_5$
Molecular Weight:	225.25
CAS No.:	[1214-39-7]
Physical Appearance:	liquid
Concentration:	1mg/ml
MDL Number:	MFCD00005572
Storage:	ambient

Application

- to induce sprouting in plant materials
- in seed germination medium for culturing of seeds
- to modify Murashige and Skoog (MS) media for shoot initiation

6-Benzylaminopurine, benzyl adenine (BAP) is a synthetic cytokinin which together with auxins elicits plant growth and development responses. BAP is a widely use cytokinin supplement to plant growth media such as Murashige and Skoog medium, Gamborg's medium, and Chu's N6 medium.

Biological activity

- BAP is an inhibitor of respiratory kinase in plants, and increases post-harvest life of green vegetables.

Physiochemical Specifications:

TEST	SPECIFICATION	RESULTS
Solubility	Miscible with Water	Passes
pH (Neat)	For Information Only	11.14
Physical Appearance Color Texture	 Colorless Clear Liquid	 Colorless Clear Liquid
Insolubles	None	Passes
Sterility by USP <71>	Sterile	Passes
Purity of Raw Material	Minimum 98.0%	98.7%

Biological Testing:

Test Concentration: 5.0 mL (5.0 mg)/L

TEST SPECIFICATION	PLANT CELL LINE	RESULTS
Supports and/or facilitates plant growth and/or shoot proliferation in two or more plant tissue cultured lines with no morphological aberrations to plants	Tobacco callus	Passes
	Dianthus	Passes