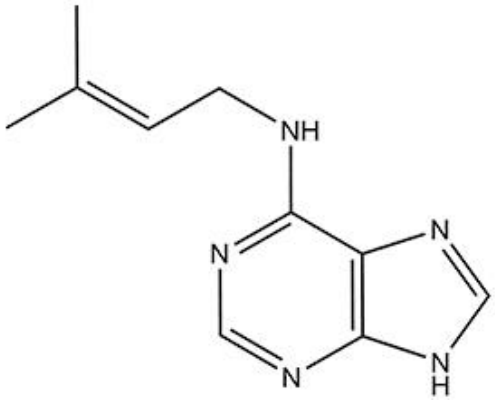
PhytoTech LABS

Product Information Sheet

D217
6-(γ,γ-Dimethylallylamino)purine (2iP) Solution (1 mg/mL)

Synonyms:	2iP; N6-[2-Isopentyl]adenine
CAS:	2365-40-4
Formula:	$C_{10}H_{13}N_5$
MW:	203.24 g/mol



Properties:

Form:	Liquid
Appearance:	Colorless, Clear Liquid
Application:	Cytokinin
Solubility:	Miscible with Water
Storage Temp:	2-8°C
Typical Working Concentration:	Varies by application. Concentration should be determined by end user.
Other Notes:	Plant Tissue Culture Tested; For Research Use Only

Application Notes:

2iP was first discovered for its cytokinin activity from an array of synthetic analogs generated from kinetin (Rogozinska *et al.* 1964), and was later found to occur naturally in plants (Hall e*t al.* 1967). Like other cytokinins, 2iP promotes cell division, shoot proliferation and organogenesis, aids in the maintenance of the shoot-apical meristem, disrupts apical dominance, and delays senescence.

2iP can be autoclaved for one cycle (Hart et al. 2016). *Phyto*Technology Laboratories® also carries 2iP powder, Product No. D525.

Please Note: While *Phyto*Technology Laboratories™ tests each lot of this product with two or more plant cell/ tissue culture lines, it is the sole responsibility of the purchaser to determine the appropriateness of this product for the specific plants that are being cultured and applications that are being used.

References:

Hall RH, Csonka L, David H, McLennan B (1967) Cytokinins in the Soluble RNA of Plant Tissues. Science Vol. 156(3771):69-71

Hart DS, Keightley A, Sappington D, Nguyen P, Chritton, C, Seckinger GR, and KC Torres (2016) Stability of Adenine-based Cytokinins in Aqueous Solution*. In Vitro Cell Dev Biol-Plant* 52:1-9

Rogozinska JH, Helgeson JP, and F Skoog (1964) Tests for Kinetin-Like Growth Promoting Activities of Triacanthine and Its Isomer, 6-(γ,γ-Dimethylallylamino)-Purine. *Physiol. Plant.* Vol. 17(1):165-176.

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