Product Information Sheet

D525

6-(\(\gamma,\gamma\)-Dimethylallylamino)purine (2iP)

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

Properties:
Form: Powder
Appearance: White to off-white powder
Application: Cytokinin
Solubility: Aqueous KOH
Storage Temp: -20°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 et 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). PhytoTechnology Laboratories® also carries 2iP solution (1 mg/mL), Product No. D217.

Please Note: While PhytoTechnology 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: