

Product Information Sheet

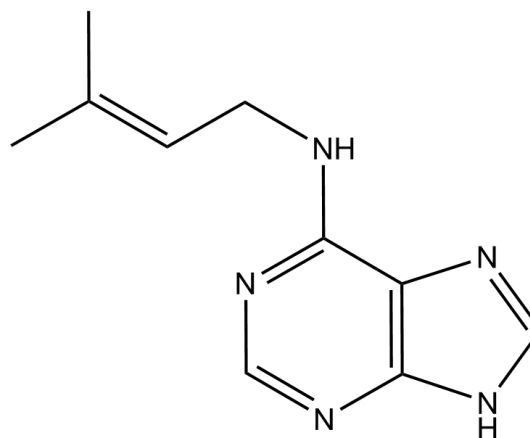
D525

6-(γ,γ -Dimethylallylamino)purine (2iP)

Synonym: 2iP; N6-[2-Isopentyl]adenine
CAS No.: 2365-40-4
Formula: C₁₀H₁₃N₅
MW: 203.3 g/mol

Properties:

Form: Powder
Appearance: Off-white to Yellow Powder
Application: Cytokinin
Solubility: KOH
Autoclavable: Yes
Storage Temp: -20° C
Other Notes: Plant Tissue Culture Tested



Application Notes:

2iP is an adenine-based cytokinin that is known to enhance shoot proliferation and promote cell division in plants. It was first isolated from the plant pathogen *Rhodococcus fascians*, (Klämbt *et al.* 1966), but is known to be endogenous to plant tissue. It is recommended to be dissolved at 1 mg/mL at 50 mM KOH for optimal stability (Hart *et al.* 2016).

References:

- Klämbt D, Thies G, Skoog F (1966) Isolation of Cytokinins from *Corynebacterium Fascians*. *PNAS* 56:52-59
- Hart DS, Keightley A, Sappington D, Nguyen P, Chritton, C, Seckinger GR, Torres KC (2016) Stability of adenine-based cytokinins in aqueous solution. *In Vitro Cell Dev Biol-Plant* 52:1-9

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.

PhytoTechnology Laboratories, LLC™

P.O. Box 12205 • Shawnee Mission, KS • 66282-2205

Phone: 1-913-341-5343 or 1-888-749-8682 (U.S. Only) Fax: 1-913-341-5442 or 1-888-449-8682 (U.S. Only)

Web Site: www.phytotechlab.com

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