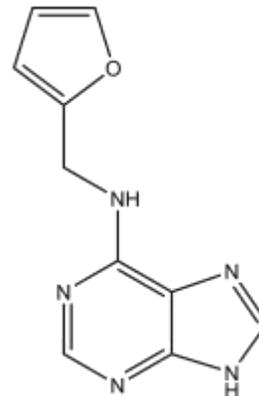




## Product Information Sheet

### K750 Kinetin

Synonym: 6-Furfurylaminopurine  
CAS: 525-79-1  
Formula: C<sub>10</sub>H<sub>9</sub>N<sub>5</sub>O  
MW: 215.21 g/mol



#### Properties:

Form: Powder  
Appearance: White to Yellow Crystalline  
Application: Cytokinin  
Solubility: Minimum 50 mM KOH  
Typical Working Concentration: Varies by application, should be determined by the end user.  
Storage Temp: -20°C  
Stock Solution Storage Temp: -20°C  
Other Notes: Plant Tissue Culture Tested; For Research Use Only

#### Application Notes:

Kinetin was the first cytokinin discovered based on its cell division promotion from a mixture of autoclaved herring sperm (Miller *et al.* 1955). Kinetin like other cytokinins promotes cell division, shoot proliferation and organogenesis, aids in the maintenance of the shoot-apical meristem, disrupts apical dominance, and delays senescence.

Kinetin is stable through one autoclave cycle (Hart *et al.* 2016)

PhytoTechnology Laboratories® also carries Kinetin solution (1 mg/mL), Product No. K483.

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:

Hart DS, Keightley A, Sappington DS, Chritton C, Nguyen P, Seckinger GS, and KC Torres (2016) Stability of Adenine-Based Cytokinins. *In Vitro Cell. Dev. Biol.-Plant* Vol. 52(1):1-9

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Miller CO, Skoog F, Von Saltza MH, and FM Strong (1955) Kinetin, A Cell Division Factor from Deoxyribonucleic acid. *JACS* Vol. 77:1392

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