

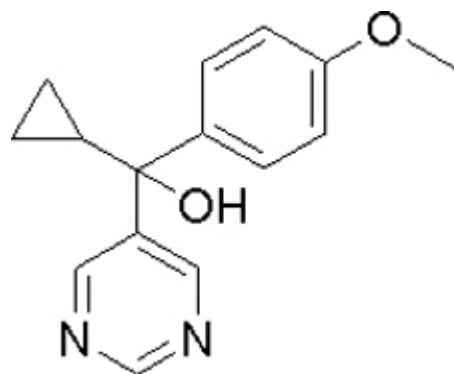
## Product Information Sheet

### A123 Ancymidol

Synonyms:  $\alpha$ -Cyclopropyl- $\alpha$ -[4-methoxyphenyl]-5-pyrimidinemethanol  
 CAS: 12771-68-5  
 Formula: C<sub>15</sub>H<sub>16</sub>N<sub>2</sub>O<sub>2</sub>  
 Mol. Weight: 256.3

#### Properties

Form: Powder  
 Appearance: White to Yellow Powder  
 Solubility: DMSO  
 Application: Plant Growth Regulator  
 Storage Temp: 2 to 6 °C  
 Typical Working Concentration: Varies with application, should be determined by end user.  
 Other Notes: Plant Tissue Culture Tested



#### Application Notes

Ancymidol is a plant growth retardant. It inhibits the oxidation of *ent*-kaurene, an enzyme that interferes with the biosynthesis of gibberellins.<sup>2</sup> It has been reported that plant treated with ancymidol has a dwarf-like appearance due to the reductions of internodes elongation.<sup>3</sup>

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

1. *Merck* **13**, 637
2. Hofmannová, Jana, Kateřina Schwarzerová, Lenka Havelková, Petra Boříková, Jan Petrášek, and Zdeněk Opatrný. 2008. A novel, cellulose synthesis inhibitory action of ancymidol impairs plant cell expansion. *Journal of Experimental Botany*. 59(14): 3963-3974.
3. Shive, John B. and Huger D. Sisler. 1976. Effects of ancymidol (a growth retardant) and triarimol (a fungicide) on the growth, sterols, and gibberellins of *Phaseolus vulgaris* (L.). *Plant Physiol*. 57:640-644.

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