



Product Information Sheet

C1796 Cycloheximide Solution, 100 mg/mL

Synonyms: Actidione, Naramycin A, 3-[2-(3,5-Dimethyl-2-oxocyclohexyl)-2-hydroxyethyl]glutarimide

CAS: 66-81-9

Formula: C₁₅H₂₃NO₄

Mol. Weight: 281.4

Properties

Form: Liquid

Appearance: Clear, Colorless to Slight Yellow Tint

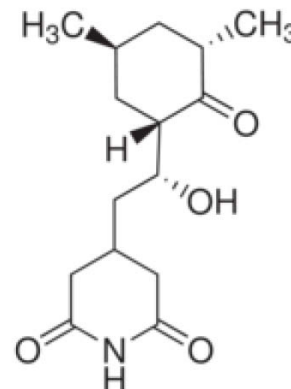
Application: Antibiotic

Solubility: Miscible with water

Storage Temp: 2 to 6 °C

Typical Working
Concentration: 100 – 1000 µg/mL

Other Notes: Plant Tissue Culture Tested



Application Notes

Cycloheximide is a glutarimide antibiotic derived from *Streptomyces griseus*. It is active against most yeast and fungi and is often used in bacteriological media for isolation and counting of unknown bacteria. It has been reported that cycloheximide inhibits eukaryotic protein synthesis.² Cycloheximide has also been used as a plant growth regulator by inducing the production of ethylene in plants.^{3,4}

Please Note: 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 Index*, 13th Ed, #2757
2. Schneider-Poetsch, Tilman, Jianhua Ju, Daniel E Eyler, Yongjun Dang, Shridhar Bhat, William C Merrick, Rachel Green, Ben Shen, and Jun O Liu. 2010. Inhibition of Eukaryotic Translation Elongation by Cycloheximide and Lactimidomycin. *Nat Chem Biol*. 6(3). 209-217.
3. Steen, David A. and Arthur V. Chadwick. 1973. Effects of Cycloheximide on Indoleacetic Acid-induced Ethylene Production in Pea Root Tips. *Plant Physiol*. 52. 171-173.
4. Wang, Kevin L. Hai Li, and Joseph R. Ecker. 2002. Ethylene Biosynthesis and Signaling Networks. *Plant Cell*. May. 14. S131-S151.

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