

## Product Information Sheet

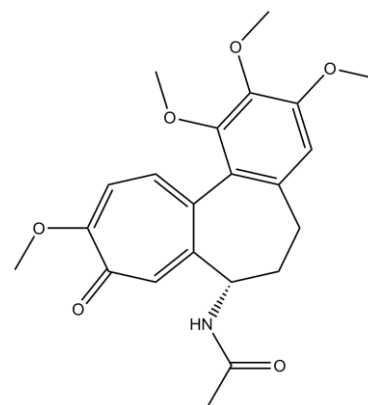
### C2026 Colchicine Solution 2.5 mg/mL

Synonym: (1E)-N-[(7S)-1,2,3,10-Tetramethoxy-9-oxo-5,6,7,9-tetrahydrobenzo[a]heptalen-7-yl]ethanimidic acid

CAS: 64-86-8

Formula: C<sub>22</sub>H<sub>25</sub>NO<sub>6</sub>

Molecular Wt: 399.44



#### Properties:

Form: Liquid

Appearance: Clear, Colorless to Light Yellow Tint

Application: Mutagen

Solubility: Miscible with Water

Typical Working Concentration: Varies with application, should be determined by end user.

Storage Temp: -20°C

Other Notes: Plant Tissue Culture Tested

#### Application Notes:

This product is used most to double the chromosomes of a cell. The mode of action is to inhibit microtubule formation, and thus mitosis. When mitosis is inhibited, the replicated chromosome(s) is(are) not compartmentalized into a new nucleus.

#### References

Andreu, J. M., & Timasheff, S. N., (1982) Tubulin bound to colchicine forms polymers different from microtubules. *Proc. Natl. Acad. Sci. USA*, 79, 6753-6756.

Arai, T., and Okuyama, T., (1975) Fluorometric assay of tubulin-colchicine complex. *Anal. Biochem.*, 69,443-450.

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Wilson, L & Friedkin, M, (1966) The biochemical events of mitosis. I. Synthesis and properties of colchicine labeled with tritium in its acetyl moiety. *Biochemistry*, 5, 2463-2468.

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