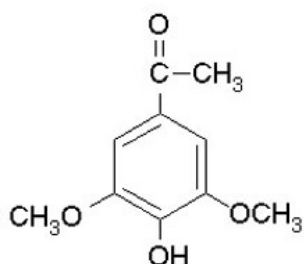




Product Information Sheet

A104 Acetosyringone



Synonym: 4-Hydroxy-3',5'-dimethoxyacetophenone
CAS: 2478-38-8
Formula: C₁₀H₁₂O₄
Molecular Wt: 196.20

Properties

Form: Powder
Appearance: Off-white to Tan
Application: Molecular Biology
Solubility: DMSO
Typical Working Concentration: 50 µM to 200 µM
Storage Temp: Room Temperature
Storage Temp of Stock Solution: -20 to 0°C
Other Notes: Plant Tissue Culture Tested. Heat sensitive, do not autoclave.

Application Notes

Acetosyringone is a naturally occurring compound secreted from wounded plant tissues. It is used to increase the rate of transformation when used at 50 µM to 200 µM. (Sheikholeslam & Weeks, 1987).

References

- João KHL and TA Brown (1993) Enhanced transformation of tomato co-cultivated with *Agrobacterium tumefaciens* C58C1Rif^r::pGSFR1161 in the presence of acetosyringone. *Plant Cell Reports*, 12:7-8, pp. 422-425.
- Mathews H, Bharathan N, Litz RE, Narayanan KR, Rao PS and Bhatia CR (1990) The promotion of *Agrobacterium* mediated transformation in *Atropa belladonna* L. by acetosyringone. *Journal of Plant Physiology*, 136 (4). pp. 404-409. ISSN 0176-1617.
- Sheikholeslam, SN & DP Weeks. 1987. Acetosyringone promotes high efficiency transformation of *Arabidopsis thaliana* explants by *Agrobacterium tumefaciens*. *Plant Molecular Biology* 8:291-298.