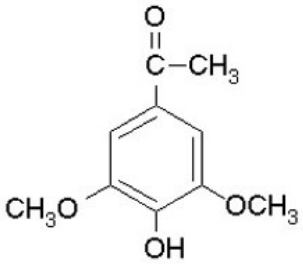
Product Information Sheet

A104
Acetosyringone



Synonym:	4-Hydroxy-3',5'-dimethoxyacetophenone
CAS:	2478-38-8
Formula:	$C_{10}H_{12}O_4$
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 0ºC
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* C58C1Rifr::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.

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