



Product Information Sheet

E244 24-Epibrassinolide

Synonyms: (22*R/S*,23*R/S*,24*R*)-2 α ,3 α ,22,23-Tetrahydroxy- β -homo-7-oxa-5 α -ergostan-6-one
CAS: 78821-43-9
Formula: C₂₇H₄₈O₆
Molecular Wt: 480.68

Properties

Form: Crystalline Powder
Appearance: White, Fine to Coarse Powder
Purity: \geq 90%
Application: Plant Growth Regulator
Solubility: DMSO at 1 mg/mL
Typical Working Concentration: N/A
Storage Temp: -20°C
Other Notes: Plant Tissue Culture Tested

This molecule has been shown to increase plant cell elongation. Both gibberillins and brassinosteroids are known to positively regulate this elongation through over expression of *Arabidopsis thaliana* transcription factor *PRE1* (*PACLOBUTRAZOL-RESISTANT1*) (Zhang *et al.* 2009). *PRE1* is also an antagonist of the transcriptional repressor *IBH1* (*ILI1 BINDING BHLH PROTEIN1*) which inhibits this elongation (Ikeda *et al.* 2012). eBL is an active form of brassinosteroids and it also down regulates the expression of *IBH1*.

References

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