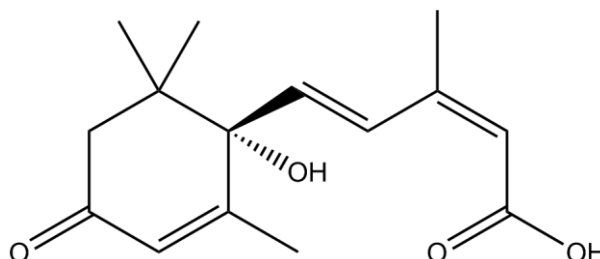


A102
Absciscic Acid (ABA)

Synonym: Abscisin II, Dormin, (S)-5-(1-Hydroxy-2,6,6-trimethyl-4-oxocyclohex-2-en-1-yl)-3-methyl-(2Z,4E)-pentadienoic acid
 CAS: 21293-29-8
 Formula: C₁₅H₂₀O₄
 MW: 264.32 g/mol


Properties:

Form: Powder
 Appearance: White to Yellow Powder
 Application: Plant Growth Regulator
 Solubility: EtOH, DMSO
 Typical Working Concentration: Varies with application, should be determined by end user.
 Storage Temp: -20°C
 Other Notes: Plant Tissue Culture Tested

Application Notes:

ABA has traditionally been used as a defoliant because of its role in leaf abscission (Ohkuma *et al.* 1963). It was later found to regulate processes associated with seed maturation and germination. ABA is also involved in stomal movement and helps mediate plant water balance and osmotic stress tolerance (Zhu 2002). It is one of the key model compounds for studying abiotic stress resistance in plants.

References:

Merck 13, 9
 K Ohkuma, JL Lyon, FT Addicott, OE Smith (1963) *Science* Vol. 142 (3599) pg. 1592-1593
 JK Zhu (2002) *Annu. Rev. Plant Biol.* Vol. 53. Pg 247-273.

Please Note: While *PhytoTechnology Laboratories®* tests each lot of this product with two or more plant cell/ tissue culture lines, 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.

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