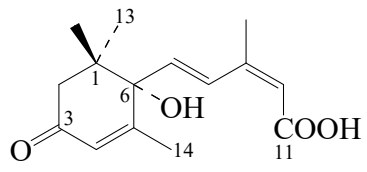
>>**Entry Name: Abscisic acid**
Synonym(s): 5-(1-Hydroxy-2,6,6-trimethyl-4-oxo-2-cyclohexen-1-yl)-3-methyl-2,4-pentadienoic acid, 9Cl. Abscisin II. Dormin



(*S*)-*form*

CAS Registry Number: 7773-56-0
Related CAS Registry Numbers(s): 6735-04-2 6755-41-5 14398-53-9 14674-85-2 40331-02-0 58801-55-1 69350-43-2 69350-44-3 78340-30-4 79199-48-7 97806-70-7
Extra CAS Registry Numbers(s): 2228-72-0 52392-36-6

Molecular Formula: $C_{15}H_{20}O_4$
Molecular Weight: 264.321
Accurate Mass: 264.13616
Percentage Composition: C 68.16%; H 7.63%; O 24.21%
General Statement: Terpenoid (cyclofarnesane) numbering shown. Other schemes freq. encountered
UV: [acid] λ_{max} 252 (ε 25200) (no solvent reported) (Derep) [base] λ_{max} 244 (ε 25000) (EtOH/NaOH) (Derep) [neutral] λ_{max} 245 (sh) (ε); 260 (ε 21300) (EtOH) (Derep)

Aldrich: 86225-8
Fluka: 12
Sigma: A4906

>>**Variant:** (*S*)-form

CAS Registry Number: 21293-29-8
Extra CAS Registry Numbers(s): 72029-68-6 72029-69-7

Molecular Formula: $C_{15}H_{20}O_4$
Molecular Weight: 264.321
Accurate Mass: 264.13616
Percentage Composition: C 68.16%; H 7.63%; O 24.21%
Biological Source: Constit. of sycamore, birch, rose, cabbage, potato, lemon etc.
Use/Importance: Used to regulate fruit ripening
Biological Use/Importance: Abscission-accelerating substance. Plays a role in plant signal transduction and pest resistance of plants
Physical Description: Cryst. ($CHCl_3$/petrol)
Melting Point: Mp 160-161°
Optical Rotation: $[\alpha]_D$ +430
Other Data: The incorrect abs. config. was formerly assigned

>>**Derivative:** β-D-Glucopyranosyl ester
Synonym(s): Abscisyl β-D-glucopyranoside

CAS Registry Number: 21414-42-6

Molecular Formula: $C_{21}H_{30}O_9$
Molecular Weight: 426.463
Accurate Mass: 426.188985
Percentage Composition: C 59.14%; H 7.09%; O 33.76%
Biological Source: Isol. from immature fruits of *Lupinus luteus*
Biological Use/Importance: Growth inhibitor
Melting Point: Mp 114°
Optical Rotation: $[\alpha]_D^{17}$+180 (c, 0.35 in EtOH)

>>**Derivative:** 11-Aldehyde
Synonym(s): Abscisic aldehyde

CAS Registry Number: 41944-86-9

Molecular Formula: $C_{15}H_{20}O_3$
Molecular Weight: 248.321
Accurate Mass: 248.141245
Percentage Composition: C 72.55%; H 8.12%; O 19.33%
Biological Source: Immediate precursor of abscisic acid
Physical Description: Cryst. (CH_2Cl_2/hexane)
Melting Point: Mp 127-128°
Optical Rotation: $[\alpha]_D^{20}$+450.5 (c,1 in EtOH)