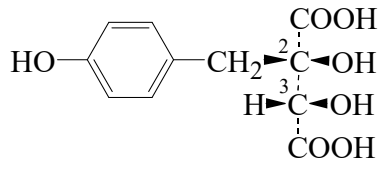
>>**Entry Name: Piscidic acid**
Synonym(s): 2,3-Dihydroxy-2-[(4-hydroxyphenyl)methyl]butanedioic acid, 9CI. *p*-Hydroxybenzyltartaric acid



Molecular Formula: $C_{11}H_{12}O_7$
Molecular Weight: 256.212
Accurate Mass: 256.058305
Percentage Composition: C 51.57%; H 4.72%; O 43.71%

Other Data: All 4 stereoisomers have been synthesised

>>**Variant:** (2*R*,3*S*)-form

CAS Registry Number: 35388-57-9

Molecular Formula: $C_{11}H_{12}O_7$
Molecular Weight: 256.212
Accurate Mass: 256.058305
Percentage Composition: C 51.57%; H 4.72%; O 43.71%
Biological Source: Isol. from bark of *Piscidia erythrina*, from *Narcissus poeticus, Cimicifuga simplex, Agave americana* and *Opuntia ficus-indica*
Physical Description: Elongated prisms (EtOAc/$CHCl_3$)
Melting Point: Mp 186-187°
Optical Rotation: $[\alpha]_D$ +42.8 (c, 0.8 in MeOH)
UV: [neutral] λ_{max} 255 (log ε 3.88); 277 (log ε 3.17) (MeOH)

>>**Derivative:** Di-Me ester

Molecular Formula: $C_{13}H_{16}O_7$
Molecular Weight: 284.265
Accurate Mass: 284.089605
Percentage Composition: C 54.93%; H 5.67%; O 39.40%
Physical Description: Cryst. (C_6H_6)
Melting Point: Mp 127°
Optical Rotation: $[\alpha]_D^{19}$ +23.71 (c, 6.37 in EtOH)

>>**Derivative:** 3-*O*-(3,4-Dihydroxy-*E*-cinnamoyl)
Synonym(s): 3-*O*-Caffeoylpiscidic acid. 2-*O*-Caffeoylpiscidic acid. **Cimicifugic acid D**

CAS Registry Number: 219986-51-3
Molecular Formula: $C_{20}H_{18}O_{10}$
Molecular Weight: 418.356
Accurate Mass: 418.09
Percentage Composition: C 57.42%; H 4.34%; O 38.24%
Biological Source: Constit. of *Cimicifuga simplex*
Physical Description: Pale yellow powder
Optical Rotation: $[\alpha]_D$ +67.3 (c, 0.34 in MeOH)
UV: [neutral] λ_{max} 248 (sh) (log ε 4.02); 291 (log ε 4.07); 332 (log ε 4.25) (MeOH)

>>**Derivative:** 3-*O*-(3-Hydroxy-4-methoxy-*E*-cinnamoyl)
Synonym(s): 3-*O*-Isoferuloylpiscidic acid. 2-*O*-Isoferuloylpiscidic acid. **Cimicifugic acid F**

CAS Registry Number: 220618-91-7
Molecular Formula: $C_{21}H_{20}O_{10}$
Molecular Weight: 432.383
Accurate Mass: 432.10565
Percentage Composition: C 58.34%; H 4.66%; O 37.00%
Biological Source: Constit. of *Cimicifuga simplex*
Physical Description: Pale yellow powder
Optical Rotation: $[\alpha]_D$ +37.6 (c, 0.5 in MeOH)
UV: [neutral] λ_{max} 245 (sh) (log ε 4.1); 297 (log ε 4.19); 326 (log ε 4.25) (MeOH)

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