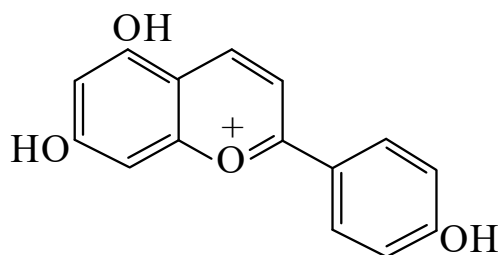




>>Entry Name: 4',5,7-Trihydroxyflavylium(1+)

Synonym(s): 5,7-Dihydroxy-2-(4-hydroxyphenyl)-1-benzopyrylium, 9Cl. **Apigeninidin**. Apigenidin. Gesneridin



CAS Registry Number: 1151-98-0

Molecular Formula: C₁₅H₁₁O₄⁽⁺⁾

Molecular Weight: 255.249

Accurate Mass: 255.065735

Percentage Composition: C 70.58%; H 4.34%; O 25.07%

Biological Source: Isol. from hydrolysates of the pigment of ``macpalxochitl''. Present in *Blechnum procerum*

Physical Description: Red prisms + 1H₂O (HCl aq.) (as chloride)

Melting Point: Mp 350° (chloride)

UV: [neutral] λ_{max} 480 () (MeOH) (Berdy) [acid] λ_{max} 476 () (MeOH-HCl) (Berdy) [acid] λ_{max} 468 (ε 18000) (HCl) (Berdy)

>>Derivative: 5-*O*-β-D-Glucopyranoside

Synonym(s): **Gesnerin**. Apigeninidin 5-glucoside

CAS Registry Number: 19045-96-6

Molecular Formula: C₂₁H₂₁O₉⁽⁺⁾

Molecular Weight: 417.391

Accurate Mass: 417.11856

Percentage Composition: C 60.43%; H 5.07%; O 34.50%

Biological Source: Pigment from petals of *Gesneria fulgens*. Widespread in ferns

Physical Description: Brown needles (MeOH/conc. HCl) (as chloride)

>>Derivative: 5-*O*-[3,4-Dihydroxycinnamoyl-(→5)α-L-arabinofuranoside]

Synonym(s): Apigeninidin 5-(5-caffeoylarabinoside)

CAS Registry Number: 131400-98-1

Molecular Formula: C₂₉H₂₅O₁₁⁽⁺⁾

Molecular Weight: 549.51

Accurate Mass: 549.13969

Percentage Composition: C 63.39%; H 4.59%; O 32.03%

Biological Source: Isol. from sorghum inoculated with *Colletotrichum graminicola*

Biological Use/Importance: Phytoalexin

>>Derivative: 7-*O*-β-D-Glucopyranoside

Synonym(s): Apigeninidin 7-glucoside

CAS Registry Number: 53948-06-4

Molecular Formula: C₂₁H₂₁O₉⁽⁺⁾

Molecular Weight: 417.391

Accurate Mass: 417.11856

Percentage Composition: C 60.43%; H 5.07%; O 34.50%

Biological Source: Isol. from *Blechnum procerum*

>>Derivative: *O*-[Tris(3,4,5-trihydroxybenzoyl)-β-D-glucopyranoside]

Synonym(s): Apigeninidin trigalloylglucoside

Molecular Formula: C₅₄H₅₃O₃₁⁽⁺⁾

Molecular Weight: 1197.994

Accurate Mass: 1197.25709

Percentage Composition: C 54.14%; H 4.46%; O 41.40%

Biological Source: Reported from Maxpalxochitl