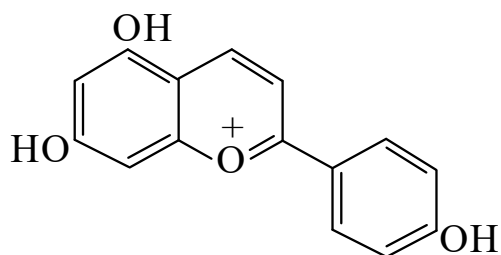




>>Entry Name: 4',5,7-Trihydroxyflavylium(1+)

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



CAS Registry Number: 1151-98-0

Molecular Formula: C<sub>15</sub>H<sub>11</sub>O<sub>4</sub><sup>(+)</sup>

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 + 1H<sub>2</sub>O (HCl aq.) (as chloride)

Melting Point: Mp 350° (chloride)

UV: [neutral] λ<sub>max</sub> 480 () (MeOH) (Berdy) [acid] λ<sub>max</sub> 476 () (MeOH-HCl) (Berdy) [acid] λ<sub>max</sub> 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: C<sub>21</sub>H<sub>21</sub>O<sub>9</sub><sup>(+)</sup>

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: C<sub>29</sub>H<sub>25</sub>O<sub>11</sub><sup>(+)</sup>

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: C<sub>21</sub>H<sub>21</sub>O<sub>9</sub><sup>(+)</sup>

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: C<sub>54</sub>H<sub>53</sub>O<sub>31</sub><sup>(+)</sup>

Molecular Weight: 1197.994

Accurate Mass: 1197.25709

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

Biological Source: Reported from Maxpalxochitl