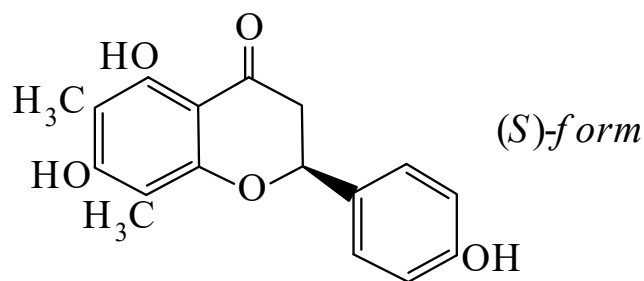




>>Entry Name: 4',5,7-Trihydroxy-6,8-dimethylflavanone

Synonym(s): 2,3-Dihydro-5,7-dihydroxy-2-(4-hydroxyphenyl)-6,8-dimethyl-4*H*-1-benzopyran-4-one, 9Cl. **Farrerol**. 4'-Demethylmatteucinol. Cyrtopterinetin



Related CAS Registry Numbers(s): 95403-16-0

**Molecular Formula:** C<sub>17</sub>H<sub>16</sub>O<sub>5</sub>

**Molecular Weight:** 300.31

**Accurate Mass:** 300.099775

**Percentage Composition:** C 67.99%; H 5.37%; O 26.64%

**Use/Importance:** Shows antitussive expectorant, cholaretic and antihyperlipidaemic props.

**Calculated Log P Data:** Log P 2.8 (uncertain value) (calc)

**UV:** [neutral] λ<sub>max</sub> 254 (ε 1900); 298 (ε 18200) (EtOH) (Berdy)

>>Variant: (*S*)-form

CAS Registry Number: 24211-30-1

**Molecular Formula:** C<sub>17</sub>H<sub>16</sub>O<sub>5</sub>

**Molecular Weight:** 300.31

**Accurate Mass:** 300.099775

**Percentage Composition:** C 67.99%; H 5.37%; O 26.64%

**Biological Source:** Isol. from the leaves of *Rhododendron farrerae* and other *Rhododendron* spp., from *Cyrtomium* and *Angophora* spp.

**Physical Description:** Buff-coloured needles (dioxan aq.)

**Melting Point:** Mp 223-224°

**Optical Rotation:** [α]<sub>D</sub> −23 (c, 0.1 in MeOH) (not opt. pure)

**Other Data:** Pharmacol. active isomer

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

**Molecular Formula:** C<sub>23</sub>H<sub>26</sub>O<sub>10</sub>

**Molecular Weight:** 462.452

**Accurate Mass:** 462.1526

**Percentage Composition:** C 59.74%; H 5.67%; O 34.60%

**Biological Source:** Believed to occur in the Athyriaceae and Dryopteridaceae. Present in *Cyrtomium* spp.

**Optical Rotation:** [α]<sub>D</sub> −23 (c, 0.1 in MeOH)

>>Derivative: *O*-Glucoside

Synonym(s): Cyrtopterin

**Molecular Formula:** C<sub>23</sub>H<sub>26</sub>O<sub>10</sub>

**Molecular Weight:** 462.452

**Accurate Mass:** 462.1526

**Percentage Composition:** C 59.74%; H 5.67%; O 34.60%

**Biological Source:** Isol. from *Cyrtomium* sp.

**Physical Description:** Needles

**Melting Point:** Mp 232-234°

**Other Data:** Full struct. not determined

>>Derivative: 5,7-Di-*O*-β-D-Glucopyranoside

**Molecular Formula:** C<sub>29</sub>H<sub>36</sub>O<sub>15</sub>

**Molecular Weight:** 624.594

**Accurate Mass:** 624.205425

**Percentage Composition:** C 55.77%; H 5.81%; O 38.42%

**Biological Source:** Occurs in *Rhododendron* spp.