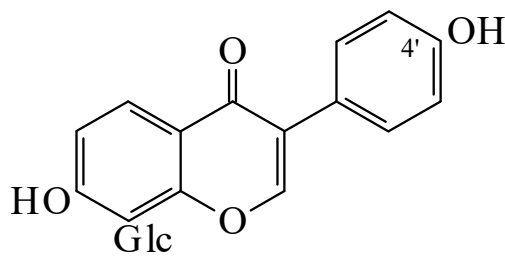




>>Entry Name: Puerarin

**Synonym(s):** 8-β-D-Glucopyranosyl-7-hydroxy-3-(4-hydroxyphenyl)-4*H*-1-benzopyran-4-one. 8-β-D-Glucopyranosyl-4',7-dihydroxyisoflavone. Daidzein 8-*C*-glucoside. 8-Glucopyranosyl daidzein. 8-Glucosyl daidzein



**CAS Registry Number:** 3681-99-0

**Related CAS Registry Numbers(s):** 88418-04-6

**Molecular Formula:** C<sub>21</sub>H<sub>20</sub>O<sub>9</sub>

**Molecular Weight:** 416.384

**Accurate Mass:** 416.110735

**Percentage Composition:** C 60.58%; H 4.84%; O 34.58%

**Biological Source:** Isol. from *Pueraria* spp.

**Use/Importance:** Possesses β-adrenergic receptor blocking props.

**Melting Point:** Mp 187°

**Sigma:** P1909

>>Derivative: 4',6''-Di-Ac

**Synonym(s):** 4',6''-Di-*O*-acetylpuerarin

**CAS Registry Number:** 24562-39-8

**Molecular Formula:** C<sub>25</sub>H<sub>24</sub>O<sub>11</sub>

**Molecular Weight:** 500.458

**Accurate Mass:** 500.131865

**Percentage Composition:** C 60.00%; H 4.83%; O 35.17%

**Biological Source:** Isol. from *Pueraria tuberosa*

>>Derivative: 6''-O-D-Apio-β-D-furanoside

**Synonym(s):** Mirificin

**CAS Registry Number:** 103654-50-8

**Molecular Formula:** C<sub>26</sub>H<sub>28</sub>O<sub>13</sub>

**Molecular Weight:** 548.499

**Accurate Mass:** 548.152995

**Percentage Composition:** C 56.93%; H 5.15%; O 37.92%

**Biological Source:** Isol. from *Pueraria mirifica*

**Use/Importance:** Possesses estrogenic props.

**Calculated Log P Data:** Log P -2.9 (uncertain value) (calc)

>>Derivative: *O*-Xyloside

**Molecular Formula:** C<sub>26</sub>H<sub>28</sub>O<sub>13</sub>

**Molecular Weight:** 548.499

**Accurate Mass:** 548.152995

**Percentage Composition:** C 56.93%; H 5.15%; O 37.92%

**Biological Source:** Isol. from *Pueraria thunbergiana*

>>Derivative: 4'-Me ether

**Synonym(s):** 8-β-D-Glucopyranosyl-7-hydroxy-4'-methoxyisoflavone

**CAS Registry Number:** 92117-94-7

**Molecular Formula:** C<sub>22</sub>H<sub>22</sub>O<sub>9</sub>

**Molecular Weight:** 430.41

**Accurate Mass:** 430.126385

**Percentage Composition:** C 61.39%; H 5.15%; O 33.46%

**Biological Source:** Isol. from *Pueraria* spp.