



**Molecular Weight:** 284.268  
**Accurate Mass:** 284.068475  
**Percentage Composition:** C 67.60%; H 4.25%; O 28.14%  
**Biological Source:** Isol. from *Centrosema haitense*, *Centrosema pubescens*, *Glycine max* and *Mildbraeodiodendron excelsa*  
**Physical Description:** Cryst. (MeOH)  
**Melting Point:** Mp 337-339° (311-313°)

>>**Derivative:** 6-Me ether, 7-*O*-β-D-glucopyranoside  
**Synonym(s):** Glycitin

**CAS Registry Number:** 40246-10-4

**Molecular Formula:** C<sub>22</sub>H<sub>22</sub>O<sub>10</sub>  
**Molecular Weight:** 446.41  
**Accurate Mass:** 446.1213  
**Percentage Composition:** C 59.19%; H 4.97%; O 35.84%  
**Biological Source:** Isol. from *Glycine max*  
**Physical Description:** Cryst. (EtOH)  
**Melting Point:** Mp 192-195°  
**Optical Rotation:** [α]<sub>D</sub><sup>20</sup> -13.4 (c, 3.65 in DMF)

>>**Derivative:** 6-Me ether, 7-*O*-(6-*O*-acetyl-β-D-glucopyranoside)

**CAS Registry Number:** 134859-96-4

**Molecular Formula:** C<sub>24</sub>H<sub>24</sub>O<sub>11</sub>  
**Molecular Weight:** 488.447  
**Accurate Mass:** 488.131865  
**Percentage Composition:** C 59.02%; H 4.95%; O 36.03%  
**Biological Source:** Isol. from *Glycine max*  
**Physical Description:** Needles (MeOH aq.)  
**Melting Point:** Mp 155-157°

>>**Derivative:** 6-Me ether, 7-*O*-(2,4,6-tri-*O*-acetyl-β-D-glucopyranoside)

**Molecular Formula:** C<sub>28</sub>H<sub>28</sub>O<sub>13</sub>  
**Molecular Weight:** 572.521  
**Accurate Mass:** 572.152995  
**Percentage Composition:** C 58.74%; H 4.93%; O 36.33%  
**Biological Source:** Constit. of soybean molasses (*Glycine* sp.)  
**Physical Description:** Amorph. yellow powder  
**Optical Rotation:** [α]<sub>D</sub><sup>25</sup> -23.8 (c, 0.5 in MeOH)  
**UV:** [neutral] λ<sub>max</sub> 227 (log ε 3.9); 275 (log ε 4.15) (MeOH)

>>**Derivative:** 6-Me ether, 7-*O*-[β-D-xylopyranosyl-(1→6)-β-D-glucopyranoside]

**Molecular Formula:** C<sub>27</sub>H<sub>30</sub>O<sub>14</sub>  
**Molecular Weight:** 578.526  
**Accurate Mass:** 578.16356  
**Percentage Composition:** C 56.06%; H 5.23%; O 38.72%  
**Biological Source:** Constit. of the flowers of *Pueraria thunbergiana*  
**Physical Description:** Needles (MeOH)  
**Optical Rotation:** [α]<sub>D</sub><sup>25</sup> -54.3 (c, 0.35 in DMSO)  
**UV:** [neutral] λ<sub>max</sub> 261 (); 320 () (MeOH)  
**Other Data:** Mp >300°