



**Molecular Weight:** 518.43  
**Accurate Mass:** 518.106045  
**Percentage Composition:** C 55.60%; H 4.28%; O 40.12%  
**Biological Source:** Isol. from the cell cultures of *Cephalocereus senilis*  
**Physical Description:** Yellow needles  
**Melting Point:** Mp 173-174°

>>Derivative: 6-*O*-β-D-Glucuronopyranoside  
Synonym(s): Baicalein 6-glucuronoside

CAS Registry Number: 35990-03-5

**Molecular Formula:** C<sub>21</sub>H<sub>18</sub>O<sub>11</sub>  
**Molecular Weight:** 446.367  
**Accurate Mass:** 446.084915  
**Percentage Composition:** C 56.51%; H 4.06%; O 39.43%  
**Biological Source:** Isol. from *Oroxylum indicum*  
**Physical Description:** Yellow needles (MeOH)  
**Melting Point:** Mp 198-200°

>>Derivative: 7-*O*-β-D-Glucuronopyranoside  
Synonym(s): Baicalin. Baicalein 7-glucuronoside. Baicaloside

CAS Registry Number: 21967-41-9

**Molecular Formula:** C<sub>21</sub>H<sub>18</sub>O<sub>11</sub>  
**Molecular Weight:** 446.367  
**Accurate Mass:** 446.084915  
**Percentage Composition:** C 56.51%; H 4.06%; O 39.43%  
**Biological Source:** Isol. from *Scutellaria* spp., *Oroxylum indicum* and other plant spp.  
**Biological Use/Importance:** Diuretic  
**Melting Point:** Mp 220-222°  
**Optical Rotation:** [α]<sub>D</sub><sup>28</sup> -140  
**Solubility:** BERDY SOL: Sol. MeOH, Et<sub>2</sub>O; poorly sol. H<sub>2</sub>O, hexane  
**Calculated Log P Data:** Log P -1.62 (calc)

>>Derivative: 7-*O*-[β-D-Glucopyranosyl-(1→?)-β-D-glucopyranoside]  
Synonym(s): Oroxin B. Baicalein 7-diglucoside

**Molecular Formula:** C<sub>27</sub>H<sub>26</sub>O<sub>15</sub>  
**Molecular Weight:** 590.493  
**Accurate Mass:** 590.127175  
**Percentage Composition:** C 54.92%; H 4.44%; O 40.64%  
**Biological Source:** Constit. of *Oroxylum indicum*  
**Other Data:** A natural flavonoid but the ref. is inaccessible

>>Derivative: 5-Me ether  
Synonym(s): 6,7-Dihydroxy-5-methoxyflavone

CAS Registry Number: 150036-33-2  
**Molecular Formula:** C<sub>16</sub>H<sub>12</sub>O<sub>5</sub>  
**Molecular Weight:** 284.268  
**Accurate Mass:** 284.068475  
**Percentage Composition:** C 67.60%; H 4.25%; O 28.14%  
**Physical Description:** Light yellow powder

>>Derivative: 5-Me ether, 7-*O*-β-D-glucopyranoside

CAS Registry Number: 150036-31-0

**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 cell cultures of *Cephalocereus senilis*  
**Physical Description:** Light yellow cubes (MeOH)  
**Melting Point:** Mp 156-158°

>>Derivative: 6-Me ether