



**Molecular Formula:** C<sub>23</sub>H<sub>22</sub>O<sub>11</sub>  
**Molecular Weight:** 474.42  
**Accurate Mass:** 474.116215  
**Percentage Composition:** C 58.23%; H 4.67%; O 37.10%  
**Biological Source:** Isol. from *Matricaria chamomilla*  
**Physical Description:** No phys. props. reported

>>Derivative: 2",3"-Di-Ac

**CAS Registry Number:** 84323-20-6

**Molecular Formula:** C<sub>25</sub>H<sub>24</sub>O<sub>12</sub>  
**Molecular Weight:** 516.457  
**Accurate Mass:** 516.12678  
**Percentage Composition:** C 58.14%; H 4.68%; O 37.17%  
**Biological Source:** Isol. from *Matricaria chamomilla*  
**Physical Description:** No phys. props. reported

>>Derivative: 3",4"-Di-Ac

**CAS Registry Number:** 84323-21-7

**Molecular Formula:** C<sub>25</sub>H<sub>24</sub>O<sub>12</sub>  
**Molecular Weight:** 516.457  
**Accurate Mass:** 516.12678  
**Percentage Composition:** C 58.14%; H 4.68%; O 37.17%  
**Biological Source:** Isol. from *Matricaria chamomilla*  
**Physical Description:** No phys. props. reported

>>Derivative: 6"-O-(2*E*-Butenoyl)

**Synonym(s):** Crotonoylcosmosiin

**CAS Registry Number:** 123656-62-2

**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 *Thermopsis alterniflora*  
**Melting Point:** Mp 265-267°  
**Optical Rotation:** [ $\alpha$ ]<sub>D</sub><sup>22</sup> -161.5 (c, 0.53 in DMF)

>>Derivative: 6"-O-Malonyl

**Synonym(s):** 6'-Malonylcosmosiin

**CAS Registry Number:** 51011-05-3

**Molecular Formula:** C<sub>24</sub>H<sub>22</sub>O<sub>13</sub>  
**Molecular Weight:** 518.43  
**Accurate Mass:** 518.106045  
**Percentage Composition:** C 55.60%; H 4.28%; O 40.12%  
**Biological Source:** Isol. from *Petroselinum crispum* and *Bryum capillare*  
**Physical Description:** No phys. props. reported

>>Derivative: 6"-O-(4-Carboxy-3-hydroxy-3-methylbutanoyl)

**Synonym(s):** 6"-O-(3-Hydroxy-3-methylglutaroyl)cosmosiin. **Chamaemeloside**

**CAS Registry Number:** 173356-77-9

**Molecular Formula:** C<sub>27</sub>H<sub>28</sub>O<sub>14</sub>  
**Molecular Weight:** 576.51  
**Accurate Mass:** 576.14791  
**Percentage Composition:** C 56.25%; H 4.90%; O 38.85%  
**Biological Source:** Constit. of the flowers of *Chamaemelum nobile* (Asteraceae)  
**Physical Description:** Amorph. yellow powder  
**Optical Rotation:** [ $\alpha$ ]<sub>D</sub><sup>20</sup> -74.5 (c, 0.2 in Py)  
**UV:** [neutral]  $\lambda_{\max}$  268 ( $\epsilon$  20780); 333 ( $\epsilon$  24200) (MeOH)