



**Percentage Composition:** C 53.13%; H 5.24%; O 41.63%  
**Biological Source:** From Siberian ginseng (*Eleutherococcus (Acanthopanax) senticosus*)  
**Physical Description:** Cryst.  
**Melting Point:** Mp 218°  
**Optical Rotation:**  $[\alpha]_{\text{D}}^{20} +80$  (MeOH)

>>**Derivative:** 6,8-Di-Me ether, 7-*O*-β-D-glucopyranoside  
**Synonym(s):** Calycanthoside

**CAS Registry Number:** 483-91-0

**Molecular Formula:** C<sub>17</sub>H<sub>20</sub>O<sub>10</sub>  
**Molecular Weight:** 384.339  
**Accurate Mass:** 384.10565  
**Percentage Composition:** C 53.13%; H 5.24%; O 41.63%  
**Biological Source:** Constit. of *Calycanthus occidentalis*  
**Physical Description:** Cryst.  
**Melting Point:** Mp 219-220°  
**Optical Rotation:**  $[\alpha]_{\text{D}}^{20} -42$  (MeOH)

>>**Derivative:** 6,8-Di-Me ether, 7-*O*-(2,3-epoxy-3-methylbutanoyl)  
**Synonym(s):** 2',3'-Epoxyuberulin

**Molecular Formula:** C<sub>16</sub>H<sub>16</sub>O<sub>7</sub>  
**Molecular Weight:** 320.298  
**Accurate Mass:** 320.089605  
**Percentage Composition:** C 60.00%; H 5.03%; O 34.97%  
**Biological Source:** Isol. from aerial parts of *Pterocaulon lanatum*  
**Physical Description:** Platelets (Et<sub>2</sub>O/petrol)  
**Melting Point:** Mp 102-104°  
**Optical Rotation:**  $[\alpha]_{\text{D}}^{25} +98$  (c, 1.5 in CHCl<sub>3</sub>)

>>**Derivative:** 7,8-Di-Me ether  
**Synonym(s):** 6-Hydroxy-7,8-dimethoxy-2*H*-1-benzopyran-2-one. 6-Hydroxy-7,8-dimethoxycoumarin. **Arscotin**

**Molecular Formula:** C<sub>11</sub>H<sub>10</sub>O<sub>5</sub>  
**Molecular Weight:** 222.197  
**Accurate Mass:** 222.052825  
**Percentage Composition:** C 59.46%; H 4.54%; O 36.00%  
**Biological Source:** From *Artemisia scotina*  
**Physical Description:** Cryst.  
**Melting Point:** Mp 192-193°

>>**Derivative:** Tri-Me ether  
**Synonym(s):** 6,7,8-Trimethoxy-2*H*-1-benzopyran-2-one. 6,7,8-Trimethoxycoumarin. **Dimethylfraxetin**

**CAS Registry Number:** 6035-49-0

**Molecular Formula:** C<sub>12</sub>H<sub>12</sub>O<sub>5</sub>  
**Molecular Weight:** 236.224  
**Accurate Mass:** 236.068475  
**Percentage Composition:** C 61.02%; H 5.12%; O 33.86%  
**Biological Source:** Isol. from trunkwood of *Fagara macrophylla*  
**Melting Point:** Mp 103-104°