



Optical Rotation: $[\alpha]_{\text{D}} +17.9$ (CHCl_3)

>> **Derivative:** Diangeloyl

Synonym(s): Anomalin $\ddagger$

CAS Registry Number: 4970-26-7

Molecular Formula: $\text{C}_{24}\text{H}_{26}\text{O}_7$

Molecular Weight: 426.465

Accurate Mass: 426.167855

Percentage Composition: C 67.59%; H 6.14%; O 26.26%

Biological Source: Isol. from *Angelica anomala*, *Bupleurum falcatum*, *Musineon divaricatum* and other plants

Melting Point: Mp 173-174°

Optical Rotation: $[\alpha]_{\text{D}}^{27} -78.4$ (−15.5) (EtOH)

UV: [neutral] λ_{max} 322 () (EtOH) (Berdy)

>> **Derivative:** *O*-Angeloyl, *O*-(3-methylbutanoyl)

Molecular Formula: $\text{C}_{24}\text{H}_{28}\text{O}_7$

Molecular Weight: 428.481

Accurate Mass: 428.183505

Percentage Composition: C 67.28%; H 6.59%; O 26.14%

Biological Source: Isol. from *Seseli libanotis*

Other Data: Placement of acyl residues uncertain

>> **Derivative:** 9-Tigloyl

CAS Registry Number: 97274-82-3

Molecular Formula: $\text{C}_{19}\text{H}_{20}\text{O}_6$

Molecular Weight: 344.363

Accurate Mass: 344.12599

Percentage Composition: C 66.27%; H 5.85%; O 27.88%

Biological Source: Constit. of *Musineon divaricatum*

>> **Derivative:** 10-Tigloyl

Synonym(s): Qianhu coumarin A

CAS Registry Number: 150135-35-6

Molecular Formula: $\text{C}_{19}\text{H}_{20}\text{O}_6$

Molecular Weight: 344.363

Accurate Mass: 344.12599

Percentage Composition: C 66.27%; H 5.85%; O 27.88%

Biological Source: Constit. of *Peucedanum praeruptorum*

Physical Description: Cryst. (petrol)

Optical Rotation: $[\alpha]_{\text{D}} +209$

>> **Derivative:** 9-*O*-(3-Methylthio-2-propenoyl), 10-angeloyl

Synonym(s): Isofloroseselin. Isofloroselin

CAS Registry Number: 54963-31-4

Molecular Formula: $\text{C}_{23}\text{H}_{24}\text{O}_7\text{S}$

Molecular Weight: 444.504

Accurate Mass: 444.124275

Percentage Composition: C 62.15%; H 5.44%; O 25.20%; S 7.21%

Biological Source: Isol. from *Seseli coronatum*

Melting Point: Mp 122-123°

Optical Rotation: $[\alpha]_{\text{D}} -87.3$ (EtOH)

Other Data: *cis*-. Abs. config. not certain, may belong to the (−)-form

>> **Derivative:** 10-Benzoyl, 9-Ac