



CAS Registry Number: 96887-15-9

Molecular Formula: C₁₈H₂₀O₆

Molecular Weight: 332.352

Accurate Mass: 332.12599

Percentage Composition: C 65.05%; H 6.07%; O 28.88%

Biological Source: Constit. of *Musineon divaricatum*

>>**Derivative:** 9-*O*-(2-Methylpropanoyl), 10-Ac

Synonym(s): Bocconin[‡]

CAS Registry Number: 103630-01-9

Molecular Formula: C₂₀H₂₂O₇

Molecular Weight: 374.39

Accurate Mass: 374.136555

Percentage Composition: C 64.16%; H 5.92%; O 29.91%

Biological Source: Constit. of *Seseli bocconi*

Physical Description: Cryst. (EtOAc)

Melting Point: Mp 147-148°

Optical Rotation: [α]_D²⁰ +7.81 (c, 1 in EtOH)

Other Data: *cis*- Abs. config. not certain

>>**Derivative:** 10-*O*-(2-Methylpropanoyl), 9-Ac

Synonym(s): Hyuganin D, Seravschanin

CAS Registry Number: 77331-76-1

Molecular Formula: C₂₀H₂₂O₇

Molecular Weight: 374.39

Accurate Mass: 374.136555

Percentage Composition: C 64.16%; H 5.92%; O 29.91%

Biological Source: Constit. of *Angelica furcijuga*, *Musineon divaricatum*, *Seseli seravschanicum* and *Seseli campestre*

Physical Description: Powder

Melting Point: Mp 175-176° (120.5-121°)

Optical Rotation: [α]_D²⁰ -39 (CHCl₃). [α]_D²⁷ +8.6 (c, 0.9 in CHCl₃)

UV: [neutral] $\lambda_{\max}$ 217 (sh) (log ϵ 4.2); 299 (sh) (log ϵ 3.9); 322 (log ϵ 4.1) (MeOH)

>>**Derivative:** 9-*O*-(*S*-2-Methylbutanoyl), 10-*O*-Ac

>>**Derivative:** 10-*O*-(2-Methylbutanoyl)

CAS Registry Number: 96887-17-1

Molecular Formula: C₁₉H₂₂O₆

Molecular Weight: 346.379

Accurate Mass: 346.14164

Percentage Composition: C 65.88%; H 6.40%; O 27.71%

Biological Source: Constit. of *Musineon divaricatum*

>>**Derivative:** 10-*O*-(2-Methylbutanoyl), 9-Ac

Synonym(s): Hyuganin C

CAS Registry Number: 214778-43-5

Molecular Formula: C₂₁H₂₄O₇

Molecular Weight: 388.416

Accurate Mass: 388.152205

Percentage Composition: C 64.94%; H 6.23%; O 28.83%

Biological Source: Constit. of *Angelica furcijuga*

Physical Description: Powder

Optical Rotation: [α]_D²⁶ -2.8 (c, 1.1 in CHCl₃)

UV: [neutral] $\lambda_{\max}$ 218 (sh) (log ϵ 3.8); 299 (sh) (log ϵ 3.6); 322 (log ϵ 3.8) (MeOH)