



CAS Registry Number: 14979-46-5

Molecular Formula: C₂₇H₃₀O₁₅

Molecular Weight: 594.525

Accurate Mass: 594.158475

Percentage Composition: C 54.55%; H 5.09%; O 40.37%

Biological Source: Isol. from *Lupinus angustifolius*, *Lupinus polyphyllus*, *Lupinus luteus* and *Sophora japonica*

Melting Point: Mp 257-259°

Optical Rotation: [α]_D²⁰ -36.2 (c, 3.24 in Py)

Other Data: Identity of the samples not certain

>>**Derivative:** 4'-O-[α -L-Rhamnopyranosyl-(1→2)- β -D-glucopyranoside]

Synonym(s): Sophorabioside. Genistein 4'-neohesperidoside

CAS Registry Number: 2945-88-2

Molecular Formula: C₂₇H₃₀O₁₄

Molecular Weight: 578.526

Accurate Mass: 578.16356

Percentage Composition: C 56.06%; H 5.23%; O 38.72%

Biological Source: Isol. from *Sophora japonica*

Physical Description: Yellowish needles + 3H₂O

Melting Point: Mp 245-248° (unsharp) (anhyd.)

Optical Rotation: [α]_D¹⁹ -72.5 (Py) (anhyd.)

>>**Derivative:** 7-O-[α -L-Rhamnopyranosyl-(1→6)- β -D-glucopyranoside]

Synonym(s): Sphaerobioside. Genistein 7-rutinoside. Spherobioside

CAS Registry Number: 14988-20-6

Molecular Formula: C₂₇H₃₀O₁₄

Molecular Weight: 578.526

Accurate Mass: 578.16356

Percentage Composition: C 56.06%; H 5.23%; O 38.72%

Biological Source: Isol. from *Baptisia sphaerocarpa* and *Baptisia lecontii*

Physical Description: Needles (MeOH)

Melting Point: Mp 203-204°

Optical Rotation: [α]_D²⁰ -73.3 (c, 9.9 in Py)

>>**Derivative:** 7-O-[β -D-Apiofuranosyl-(1→6)- β -D-glucopyranoside]

Synonym(s): Ambocin

CAS Registry Number: 108044-05-9

Molecular Formula: C₂₆H₂₈O₁₄

Molecular Weight: 564.499

Accurate Mass: 564.14791

Percentage Composition: C 55.32%; H 5.00%; O 39.68%

Biological Source: Constit. of *Neorautanenia amboensis*

Physical Description: Glass

Optical Rotation: [α]_D -36.5 (c, 0.011 in H₂O)

>>**Derivative:** 4'-O- β -D-Apiofuranoside, 7-O- β -D-glucopyranoside

Synonym(s): Neobacin

CAS Registry Number: 108069-00-7

Molecular Formula: C₂₆H₂₈O₁₄

Molecular Weight: 564.499

Accurate Mass: 564.14791

Percentage Composition: C 55.32%; H 5.00%; O 39.68%

Biological Source: From *Neorautanenia amboensis*

Physical Description: Glass

Optical Rotation: [α]_D -38.2 (c, 0.011 in H₂O)