



>>Derivative: 3-*O*-[α -L-Rhamnopyranosyl-(1 $\rightarrow$?)]- β -D-glucopyranoside]

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 the flowers of *Bauhinia variegata*

>>Derivative: 3-*O*-[α -L-Rhamnopyranosyl-(1 $\rightarrow$ 2)- β -D-glucopyranoside]

Synonym(s): Kaempferol 3-neohesperidoside

CAS Registry Number: 32602-81-6

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 *Humulus lupulus*, *Paris verticillata* and other plant spp.

Physical Description: Pale yellow needles

Melting Point: Mp 197-200°

Optical Rotation: [α]_D²² -58.8 (c, 1.36 in MeOH)

>>Derivative: 3-*O*-[α -L-Rhamnopyranosyl-(1 $\rightarrow$ 2)- β -D-glucopyranoside], 4'-*O*- β -D-glucopyranoside

CAS Registry Number: 189883-00-9

Molecular Formula: C₃₃H₄₀O₂₀

Molecular Weight: 756.667

Accurate Mass: 756.2113

Percentage Composition: C 52.38%; H 5.33%; O 42.29%

Biological Source: Constit. of *Pseuderucaria clavata*

>>Derivative: 3-*O*-[α -L-Rhamnopyranosyl-(1 $\rightarrow$ 2)- β -D-glucopyranoside], 4',7-di-*O*- β -D-glucopyranoside

CAS Registry Number: 189883-01-0

Molecular Formula: C₃₉H₅₀O₂₅

Molecular Weight: 918.809

Accurate Mass: 918.264125

Percentage Composition: C 50.98%; H 5.48%; O 43.53%

Biological Source: Constit. of *Pseuderucaria clavata*

>>Derivative: 3-*O*-[α -L-Rhamnopyranosyl-(1 $\rightarrow$ 6)- β -D-glucopyranoside]

Synonym(s): Kaempferol 3-rutinoside. **Nicotiflorin**. Nicotifloroside. Nictoflorin (incorr.)

CAS Registry Number: 17650-84-9

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 numerous plant spp.

Physical Description: Yellow needles (MeOH aq.)

Melting Point: Mp 190-192°

Optical Rotation: [α]_D²⁵ -52 (c, 1 in Py)

Solubility: BERDY SOL: Sol. MeOH, EtOAc; fairly sol. H₂O; poorly sol. hexane, CHCl₃

>>Derivative: 3-*O*-[α -L-Rhamnopyranosyl-(1 $\rightarrow$ 6)- β -D-glucopyranoside], 4'-*O*- β -D-glucopyranoside

Synonym(s): Kaempferol 3-rutinoside 4-glucoside

CAS Registry Number: 89439-58-7

Molecular Formula: C₃₃H₄₀O₂₀

Molecular Weight: 756.667

Accurate Mass: 756.2113

Percentage Composition: C 52.38%; H 5.33%; O 42.29%

Biological Source: Isol. from *Geranium* spp.