



>>>Derivative: 4'-O-[β-D-Apiofuranosyl-(1→2)-β-D-glucopyranoside]

Synonym(s): Licuroside. Licurazid. Liquiraside

CAS Registry Number: 29913-71-1

Molecular Formula: C₂₆H₃₀O₁₃

Molecular Weight: 550.515

Accurate Mass: 550.168645

Percentage Composition: C 56.73%; H 5.49%; O 37.78%

Biological Source: Isol. from *Glycine glabra* and *Glycine uralensis*

Use/Importance: Possesses spasmolytic props.

Melting Point: Mp 150-151°

Optical Rotation: [α]_D -125

Calculated Log P Data: Log P -1.9 (uncertain value) (calc)

>>>Derivative: 4-O-[β-D-Apiofuranosyl-(1→2)-β-D-glucopyranoside], 4'-O-β-D-glucopyranoside

Synonym(s): Glucoisoliquiritin apioside

Molecular Formula: C₃₂H₄₀O₁₈

Molecular Weight: 712.657

Accurate Mass: 712.22147

Percentage Composition: C 53.93%; H 5.66%; O 40.41%

Biological Source: Constit. of *Glycyrrhiza aspera*

Physical Description: Powder

Optical Rotation: [α]_D²³ -86.2 (c, 0.2 in MeOH)

UV: [neutral] λ_{max} 360 (ε 1800) (MeOH)

>>>Derivative: 4-O-[4-Hydroxycinnamoyl-(→5)-β-D-apiofuranosyl-(1→2)-β-D-glucopyranoside]

Synonym(s): Licorice glycoside B

Molecular Formula: C₃₅H₃₆O₁₅

Molecular Weight: 696.66

Accurate Mass: 696.205425

Percentage Composition: C 60.34%; H 5.21%; O 34.45%

Biological Source: Constit. of *Glycyrrhiza uralensis*

Physical Description: Amorph. yellow powder

Optical Rotation: [α]_D -39.8 (c, 1 in MeOH)

UV: [neutral] λ_{max} 206 (log ε 4.61); 228 (log ε 4.42); 318 (log ε 4.59); 359 (log ε 4.45) (MeOH)

>>>Derivative: 4-O-[4-Hydroxy-3-methoxycinnamoyl-(→5)-β-D-apiofuranosyl-(1→2)-β-D-glucopyranoside]

Synonym(s): Licorice glycoside A

Molecular Formula: C₃₆H₃₈O₁₆

Molecular Weight: 726.687

Accurate Mass: 726.21599

Percentage Composition: C 59.50%; H 5.27%; O 35.23%

Biological Source: Constit. of *Glycyrrhiza uralensis*

Physical Description: Amorph. yellow powder + 2H₂O

Optical Rotation: [α]_D -27.4 (c, 1 in MeOH)

UV: [neutral] λ_{max} 205 (log ε 4.59); 219 (sh) (log ε 4.45); 234 (log ε 4.37); 315 (sh) (log ε 4.4); 330 (log ε 4.56); 368 (sh) (log ε 4.4) (MeOH)

>>>Derivative: 2'-Me ether

Synonym(s): 3-(4-Hydroxyphenyl)-1-(4-hydroxy-2-methoxyphenyl)-2-propen-1-one. 4,4'-Dihydroxy-2'-methoxychalcone

CAS Registry Number: 51828-10-5

Molecular Formula: C₁₆H₁₄O₄

Molecular Weight: 270.284

Accurate Mass: 270.08921

Percentage Composition: C 71.10%; H 5.22%; O 23.68%

Biological Source: Stress metab. of *Pisum sativum*, also isol. from *Caesalpinia japonica*

Physical Description: Orange cryst. (EtOH aq.)

Melting Point: Mp 210-212°