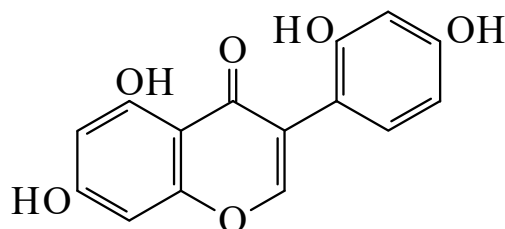




>>Entry Name: 2',4',5,7-Tetrahydroxyisoflavone

Synonym(s): 3-(2,4-Dihydroxyphenyl)-5,7-dihydroxy-4*H*-1-benzopyran-4-one, 9Cl. 2'-Hydroxygenistein



CAS Registry Number: 1156-78-1

Molecular Formula: C₁₅H₁₀O₆

Molecular Weight: 286.24

Accurate Mass: 286.04774

Percentage Composition: C 62.94%; H 3.52%; O 33.54%

Biological Source: Isol. from *Apios tuberosa*, *Argyrocytisus battandieri*, *Cajanus cajan*, *Crotalaria juncea*, *Dolichos biflorus*, *Hardenbergia violacea*, *Lablab niger*, *Laburnum anagyroides*, *Lupinus albus*, *Moghania macrophylla*, *Neonotonia wightii*, *Phaseolus vulgaris*, *Phaseolus coccineus*, *Spartium junceum* and *Stizolobium deeringianum* (all Leguminosae, Papilionoideae)

Physical Description: Cryst. (CHCl₃/MeOH)

Melting Point: Mp 270-273°

UV: [neutral] λ_{max} 209 (); 262 (); 288 () (MeOH) (Berdy)

>>Derivative: 4'-O-β-D-Glucopyranoside

CAS Registry Number: 137351-14-5

Molecular Formula: C₂₁H₂₀O₁₁

Molecular Weight: 448.382

Accurate Mass: 448.100565

Percentage Composition: C 56.25%; H 4.50%; O 39.25%

Biological Source: Isol. from the roots of *Lupinus albus*

>>Derivative: 7-O-β-D-Glucopyranoside

CAS Registry Number: 137351-12-3

Molecular Formula: C₂₁H₂₀O₁₁

Molecular Weight: 448.382

Accurate Mass: 448.100565

Percentage Composition: C 56.25%; H 4.50%; O 39.25%

Biological Source: Isol. from the roots of *Lupinus albus*

Melting Point: Mp 208-210°

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

CAS Registry Number: 147879-69-4

Molecular Formula: C₂₇H₃₀O₁₆

Molecular Weight: 610.524

Accurate Mass: 610.15339

Percentage Composition: C 53.12%; H 4.95%; O 41.93%

Biological Source: Constit. of *Lupinus polyphyllus* x *arboreus*

Physical Description: Powder

Optical Rotation: [α]_D²⁵ -19.7 (c, 0.6 in DMSO)

>>Derivative: 7-O-(6-O-Malonyl-β-D-glucopyranoside)

CAS Registry Number: 137351-13-4

Molecular Formula: C₂₄H₂₂O₁₄

Molecular Weight: 534.429

Accurate Mass: 534.10096

Percentage Composition: C 53.94%; H 4.15%; O 41.91%

Biological Source: Isol. from the roots of *Lupinus albus*