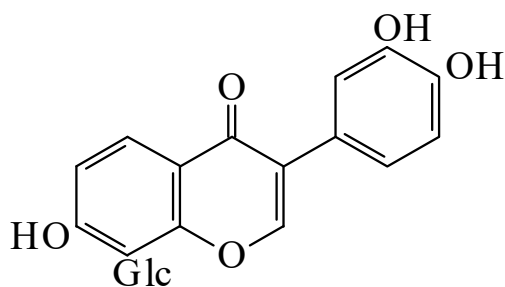




>>Entry Name: 8-Glucopyranosyl-3',4',7-trihydroxyisoflavone

Synonym(s): 3'-Hydroxydaidzein 8-C-glucoside. **Puerariaglycoside 1.** 3'-Hydroxypuerarin



CAS Registry Number: 117060-54-5

Molecular Formula: C₂₁H₂₀O₁₀

Molecular Weight: 432.383

Accurate Mass: 432.10565

Percentage Composition: C 58.34%; H 4.66%; O 37.00%

Biological Source: Isol. from the roots of *Pueraria lobata*

Physical Description: Needles

Melting Point: Mp 248-250°

Optical Rotation: $[\alpha]_D^{32} +15.6$ (c, 0.5 in DMSO)

>>Derivative: 4'-O-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: Constit. of *Pueraria lobata*

Physical Description: Powder

Optical Rotation: $[\alpha]_D -17.7$ (c, 0.1 in MeOH)

UV: [neutral] $\lambda_{\max}$ 202 (log ε 4.41); 220 (log ε 4.34); 244 (sh) (log ε 4.33); 250 (log ε 4.34); 289 (log ε 4.02) (MeOH)

>>Derivative: 3'-Me ether

Synonym(s): 8-Glucopyranosyl-4',7-dihydroxy-3'-methoxyisoflavone. 3'-Methoxydaidzein 8-C-glucoside. **Puerariaglycoside 3.** 3'-Methoxypuerarin

CAS Registry Number: 117047-07-1

Molecular Formula: C₂₂H₂₂O₁₀

Molecular Weight: 446.41

Accurate Mass: 446.1213

Percentage Composition: C 59.19%; H 4.97%; O 35.84%

Biological Source: Isol. from *Pueraria lobata*

Physical Description: Needles

Melting Point: Mp 214-216°

Optical Rotation: $[\alpha]_D^{31} +16.5$ (c, 0.2 in DMSO)

References:

Kinjo, J.-E. *et al.*, *Chem. Pharm. Bull.*, 1987, **35**, 4846, (*isol, pmr*)

Ohshima, Y. *et al.*, *Planta Med.*, 1988, **54**, 250, (*isol*)

Hirakura, K. *et al.*, *Phytochemistry*, 1997, **46**, 921-928, (*4'-glucoside*)