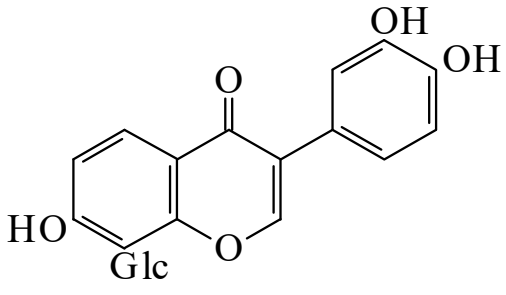
>>**Entry Name: 8-Glucopyranosyl-3',4',7-trihydroxyisoflavone**
Synonym(s): 3'-Hydroxydaidzein 8-*C*-glucoside. **Puerariaglycoside 1.** 3'-Hydroxypuerarin



CAS Registry Number: 117060-54-5

Molecular Formula: $C_{21}H_{20}O_{10}$
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: $C_{27}H_{30}O_{15}$
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] λ_{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: $C_{22}H_{22}O_{10}$
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)*