



Accurate Mass: 454.09
Percentage Composition: C 60.80%; H 3.99%; O 35.21%
Physical Description: Cryst. (AcOH)
Melting Point: Mp 212°

>>Derivative: 3'-Me ether

Synonym(s): 4',5,7-Trihydroxy-3'-methoxyisoflavone. 3'-*O*-Methylorobol

CAS Registry Number: 36190-95-1

Molecular Formula: C₁₆H₁₂O₆
Molecular Weight: 300.267
Accurate Mass: 300.06339
Percentage Composition: C 64.00%; H 4.03%; O 31.97%
Biological Source: Isol. from *Dalbergia inundata*, *Wyethia helenioides*, *Wyethia mollis* and *Thermopsis* spp.
Physical Description: Cryst. (MeOH)
Melting Point: Mp 218-222°
Solubility: BERDY SOL: Sol. MeOH, EtOAc; poorly sol. H₂O
UV: [neutral] λ_{max} 263 (); 292 (); 332 () (MeOH) (Berdy) [base] λ_{max} 277 (); 327 () (MeOH-NAOH) (Berdy) [base] λ_{max} 281 (ε 18600); 330 (ε 10500) (EtOH-NaOH) (Berdy) [neutral] λ_{max} 265 (ε 20400); 295 (ε 9300); 345 (ε 360) (EtOH) (Berdy)

>>Derivative: 3'-Me ether, 7-*O*-β-D-glucopyranoside

CAS Registry Number: 36190-96-2

Molecular Formula: C₂₂H₂₂O₁₁
Molecular Weight: 462.409
Accurate Mass: 462.116215
Percentage Composition: C 57.14%; H 4.80%; O 38.06%
Biological Source: Present in *Thermopsis* spp.

>>Derivative: 4'-Me ether

Synonym(s): 3',5,7-Trihydroxy-4'-methoxyisoflavone. **Pratensein**

CAS Registry Number: 2284-31-3

Molecular Formula: C₁₆H₁₂O₆
Molecular Weight: 300.267
Accurate Mass: 300.06339
Percentage Composition: C 64.00%; H 4.03%; O 31.97%
Biological Source: Constit. of *Bolusanthus speciosus*, *Trifolium* spp., *Cicer arietinum*, *Cytisus scoparius*, *Monopteryx inpaie*, *Sophora japonica* and *Thermopsis* spp.
Physical Description: Cryst. (EtOH)
Melting Point: Mp 272-273°
UV: [neutral] λ_{max} 262 () (MeOH) (Berdy) [base] λ_{max} 270 (); 320 () (MeOH-NAOH) (Berdy)

>>Derivative: 4'-Me ether, 7-*O*-β-D-glucopyranoside

Synonym(s): Pratensein 7-*O*-glucoside

CAS Registry Number: 36191-03-4

Molecular Formula: C₂₂H₂₂O₁₁
Molecular Weight: 462.409
Accurate Mass: 462.116215
Percentage Composition: C 57.14%; H 4.80%; O 38.06%
Biological Source: Present in *Thermopsis* and *Trifolium* spp.

>>Derivative: 7-Me ether

Synonym(s): 3',4',5-Trihydroxy-7-methoxyisoflavone. **Santal**

CAS Registry Number: 529-60-2

Molecular Formula: C₁₆H₁₂O₆
Molecular Weight: 300.267
Accurate Mass: 300.06339
Percentage Composition: C 64.00%; H 4.03%; O 31.97%
Biological Source: Constit. of *Pterocarpus osun* and *Pterocarpus soyauxii*, also *Baphia nitida*, *Wyethia helenioides* and *Wyethia mollis*
Physical Description: Cryst. (EtOH)
Melting Point: Mp 222-223°