



Molecular Formula: C₂₈H₃₂O₁₄

Molecular Weight: 592.552

Accurate Mass: 592.17921

Percentage Composition: C 56.76%; H 5.44%; O 37.80%

Physical Description: Amorph. powder (MeOH)

Melting Point: Mp 146-148°

Optical Rotation: [α]_D²⁰ -97 (c, 0.001 in DMSO)

UV: [neutral] $\lambda_{\max}$ 260 (log ϵ 4.15); 320 (log ϵ 3.6) (MeOH)

>>**Derivative:** 4',6-Di-Me ether, 7-Ac

Synonym(s): 7-Acetoxy-4',6-dimethoxyisoflavone. *O*-Acetylafromosin

CAS Registry Number: 4253-19-4

Molecular Formula: C₁₉H₁₆O₆

Molecular Weight: 340.332

Accurate Mass: 340.09469

Percentage Composition: C 67.05%; H 4.74%; O 28.21%

Biological Source: Constit. of *Millettia reticulata*

Physical Description: Needles (EtOH)

Melting Point: Mp 165-167°

>>**Derivative:** 4',7-Di-Me ether

Synonym(s): 6-Hydroxy-4',7-dimethoxyisoflavone. **Alfalone**

CAS Registry Number: 970-48-9

Molecular Formula: C₁₇H₁₄O₅

Molecular Weight: 298.295

Accurate Mass: 298.084125

Percentage Composition: C 68.45%; H 4.73%; O 26.82%

Biological Source: Isol. from the callus of *Medicago sativa*

Physical Description: Needles (EtOH)

Melting Point: Mp 246-247°

>>**Derivative:** Tri-Me ether

Synonym(s): 4',6,7-Trimethoxyisoflavone

CAS Registry Number: 798-61-8

Molecular Formula: C₁₈H₁₆O₅

Molecular Weight: 312.321

Accurate Mass: 312.099775

Percentage Composition: C 69.22%; H 5.16%; O 25.61%

Physical Description: Cryst.

Melting Point: Mp 179-180°

References: