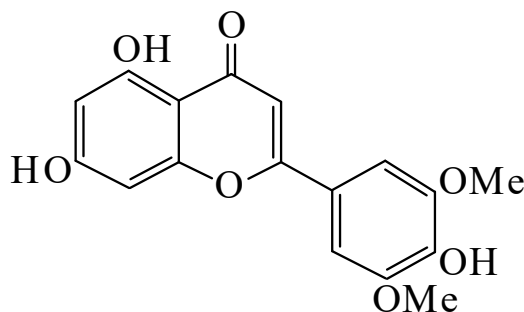




>>Entry Name: 4',5,7-Trihydroxy-3',5'-dimethoxyflavone

ENTRY UNDER REVIEW

Synonym(s): 5,7-Dihydroxy-2-(4-hydroxy-3,5-dimethoxyphenyl)-4*H*-1-benzopyran-4-one, 9Cl. Tricetin 3',5'-dimethyl ether. **Tricin**. Phelipeone. Phoeipeone



CAS Registry Number: 520-32-1

Related CAS Registry Numbers(s): 50816-55-2

Molecular Formula: C₁₇H₁₄O₇

Molecular Weight: 330.293

Accurate Mass: 330.073955

Percentage Composition: C 61.82%; H 4.27%; O 33.91%

Biological Source: Constit. of *Aechmea*, *Billbergia*, *Veronica* and Gramineae spp. Widespread in the Cyperaceae

Biological Use/Importance: Estrogen. Shows antioxidant activity

Physical Description: Yellow needles (AcOH aq.)

Melting Point: Mp 291-292°

Calculated Log P Data: Log P 0.6 (calc)

>>Derivative: 7-*O*-β-L-Arabinopyranoside

Synonym(s): **Setaricin**. Tricin arabinoside

CAS Registry Number: 126394-59-0

Molecular Formula: C₂₂H₂₂O₁₁

Molecular Weight: 462.409

Accurate Mass: 462.116215

Percentage Composition: C 57.14%; H 4.80%; O 38.06%

Biological Source: Constit. of the leaves of *Setaria italica*

Physical Description: Shining yellow needles (MeOH)

Melting Point: Mp 300°

Other Data: Incorrect anomer given in CA

>>Derivative: 5-*O*-β-D-Glucopyranoside

Synonym(s): Tricin 5-glucoside

CAS Registry Number: 32769-00-9

Molecular Formula: C₂₃H₂₄O₁₂

Molecular Weight: 492.435

Accurate Mass: 492.12678

Percentage Composition: C 56.10%; H 4.91%; O 38.99%

Biological Source: Isol. from leaves of *Triticum* spp., *Cirsium* spp. and others

>>Derivative: 7-*O*-β-D-Glucopyranoside

Synonym(s): **Glucotricin**. Tricin 7-glucoside

CAS Registry Number: 32769-01-0

Molecular Formula: C₂₃H₂₄O₁₂

Molecular Weight: 492.435

Accurate Mass: 492.12678

Percentage Composition: C 56.10%; H 4.91%; O 38.99%

Biological Source: Isol. from rice leaves (*Oryza sativa*), *Lycopodium scariosum*, *Carex* spp. and others

Physical Description: Light yellow powder (butanol/Et₂O); cryst. + 2H₂O (MeOH aq.)

Melting Point: Mp 260.5-261° (dihydrate). Mp 240-241° (anhyd.)