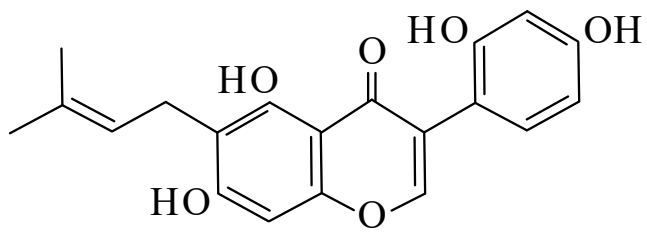
>>**Entry Name: 2',4',5,7-Tetrahydroxy-6-prenylisoflavone**
Synonym(s): 3-(2,4-Dihydroxyphenyl)-5,7-dihydroxy-6-(3-methyl-2-butenyl)-4*H*-1-benzopyran-4-one, 9CI. **Luteone**‡



CAS Registry Number: 41743-56-0
Related CAS Registry Numbers(s): 91681-62-8

Molecular Formula: $C_{20}H_{18}O_6$
Molecular Weight: 354.359
Accurate Mass: 354.11034
Percentage Composition: C 67.79%; H 5.12%; O 27.09%

anagyroides
Physical Description: Pale-yellow plates (MeOH)
Melting Point: Mp 225-227°
Solubility: BERDY SOL: Sol. MeOH, EtOAc; poorly sol. H_2O
UV: [neutral] λ_{max} 266 (ε 28300); 290 (ε 14100) (MeOH) (Berdy) [base] λ_{max} 223 (); 279 (); 337 () (MeOH-NAOH) (Berdy)

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

CAS Registry Number: 137351-15-6

Molecular Formula: $C_{26}H_{28}O_{11}$
Molecular Weight: 516.501
Accurate Mass: 516.163165
Percentage Composition: C 60.46%; H 5.46%; O 34.07%
Biological Source: Isol. from the roots of *Lupinus albus*

>>**Derivative:** 4'-Me ether
Synonym(s): 2',5,7-Trihydroxy-4'-methoxy-6-prenylisoflavone. **Gancaonin N**

CAS Registry Number: 129145-52-4

Molecular Formula: $C_{21}H_{20}O_6$
Molecular Weight: 368.385
Accurate Mass: 368.12599
Percentage Composition: C 68.47%; H 5.47%; O 26.06%
Biological Source: Isol. from *Glycyrrhiza uralensis*
Physical Description: Prisms (Me_2CO/C_6H_6/hexane)
Melting Point: Mp 159-162°

>>**Derivative:** 2',4',7-Tri-Me ether

Molecular Formula: $C_{23}H_{24}O_6$
Molecular Weight: 396.439
Percentage Composition: C 69.68%; H 6.10%; O 24.21%
Melting Point: Mp 134-135°

References:

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Ingham, J.L.*, Z. Naturforsch., C*, 1980, **35**, 197; 1983, **38**, 194, *(isol)*
Hashidoko, Y. *et al.*, *Agric. Biol. Chem.*, 1986, **50**, 1797, *(isol, pmr)*
Fukai, T. *et al.*, *Heterocycles*, 1990, **31**, 373, *(Gancaonin N)*
Shibuya, Y. *et al.*, *Z. Naturforsch., C*, 1991, **46**, 513, *(7-glucoside)*