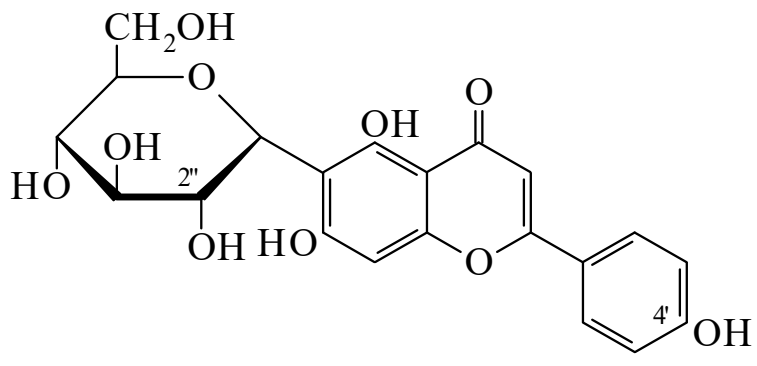
>>**Entry Name: Isovitexin**
ENTRY UNDER REVIEW

Synonym(s): 6-β-D-Glucopyranosyl-5,7-dihydroxy-2-(4-hydroxyphenyl)-4*H*-1-benzopyran-4-one, 9CI. 6-*C*-Glucopyranosylapigenin. 6-Glucosylapigenin. Saponaretin. Homovitexin. Avroside



CAS Registry Number: 38953-85-4
Related CAS Registry Numbers(s): 11018-95-4 28570-90-3 29702-25-8 36025-68-0 53609-37-3 61460-24-0 64813-37-2 72021-35-3 77193-99-8 84842-17-1 84842-18-2 87551-96-0 89961-45-5 133196-84-6

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: Pigment accompanying vitexin in many plants including *Geranium phaeum, Polygonum affine, Swertia perennis* and *Passiflora* spp.
Physical Description: Yellow cryst. (MeOH/EtOAc)
Melting Point: Mp 239° (223-224°)
Optical Rotation: $[\alpha]_D$ +16.2 (EtOH)
UV: [neutral] λ_{max} 271 (); 336 () (MeOH)
Other Data: Acid → Vitexin. Isoavroside was assigned the struct. of a geom. isomer of avroside but it is not clear what was meant by this

>>**Derivative:** 7-*O*-Sulfate

Molecular Formula: $C_{21}H_{20}O_{13}S$
Molecular Weight: 512.447
Accurate Mass: 512.062465
Percentage Composition: C 49.22%; H 3.93%; O 40.59%; S 6.26%
Biological Source: Isol. from species of Palmae family

>>**Derivative:** 4'-*O*-Arabinoside

CAS Registry Number: 83077-64-9

Molecular Formula: $C_{26}H_{28}O_{14}$
Molecular Weight: 564.499
Accurate Mass: 564.14791
Percentage Composition: C 55.32%; H 5.00%; O 39.68%
Biological Source: Isol. from *Leptodactylon* sp.

>>**Derivative:** 7-*O*-Xyloside

CAS Registry Number: 54951-90-5

Molecular Formula: $C_{26}H_{28}O_{14}$
Molecular Weight: 564.499
Accurate Mass: 564.14791
Percentage Composition: C 55.32%; H 5.00%; O 39.68%
Biological Source: Isol. from *Melandrium album* and *Silene* sp.

>>**Derivative:** 7-*O*-β-D-Glucopyranoside
Synonym(s): Saponarin. Petrocomoside

CAS Registry Number: 20310-89-8