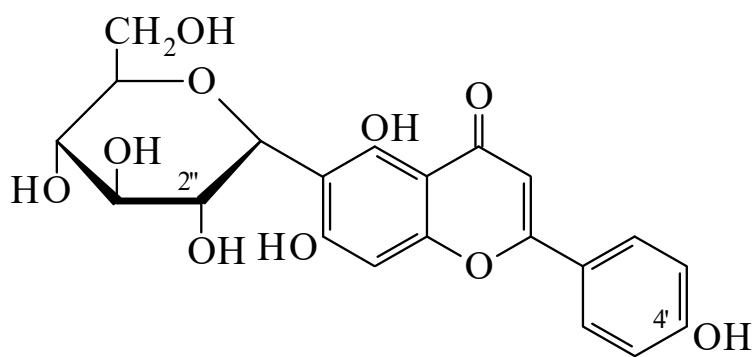




>>Entry Name: Isovitexin

ENTRY UNDER REVIEW

Synonym(s): 6- β -D-Glucopyranosyl-5,7-dihydroxy-2-(4-hydroxyphenyl)-4*H*-1-benzopyran-4-one, 9Cl. 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: C₂₁H₂₀O₁₀

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: [α]_D +16.2 (EtOH)

UV: [neutral] $\lambda_{\max}$ 271 (); 336 () (MeOH)

Other Data: Acid $\rightarrow$ 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: C₂₁H₂₀O₁₃S

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: C₂₆H₂₈O₁₄

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: C₂₆H₂₈O₁₄

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