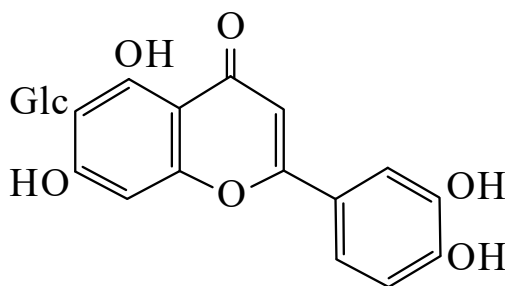




>>Entry Name: Isoorientin

ENTRY UNDER REVIEW

Synonym(s): 2-(3,4-Dihydroxyphenyl)-6-β-D-glucopyranosyl-5,7-dihydroxy-4*H*-1-benzopyran-4-one, 9Cl. 6-*C*-Glucopyranosyl-3',4',5,7-tetrahydroxyflavone. 6-*C*-β-D-Glucopyranosylluteolin. Homoorientin. Lespecapitoside. Lutonaretin



CAS Registry Number: 4261-42-1

Related CAS Registry Numbers(s): 57788-32-6 61460-25-1 62249-40-5 79078-23-2

Molecular Formula: C₂₁H₂₀O₁₁

Molecular Weight: 448.382

Accurate Mass: 448.100565

Percentage Composition: C 56.25%; H 4.50%; O 39.25%

Biological Source: Widespread occurrence in *Adonis*, *Gentiana*, *Helenium* and *Passiflora* spp., etc.

Physical Description: Light yellow needles or pale yellow-green powder

Melting Point: Mp 237-239°

Optical Rotation: [α]_D²⁰+30.8 (c, 1.2 in Py). [α]_D²²+30 (c, 0.5 in EtOH)

>>Derivative: 7-*O*-Sulfate

Molecular Formula: C₂₁H₂₀O₁₄S

Molecular Weight: 528.447

Accurate Mass: 528.05738

Percentage Composition: C 47.73%; H 3.81%; O 42.39%; S 6.07%

Biological Source: Isol. from leaves of the Palmae family

>>Derivative: 2"-*O*-β-L-Arabinofuranosyl

Molecular Formula: C₂₆H₂₈O₁₅

Molecular Weight: 580.498

Accurate Mass: 580.142825

Percentage Composition: C 53.80%; H 4.86%; O 41.34%

Biological Source: Isol. from *Trichomanes venosum*

>>Derivative: 6"-*O*-α-L-Arabinopyranosyl

CAS Registry Number: 60354-07-6

Molecular Formula: C₂₆H₂₈O₁₅

Molecular Weight: 580.498

Accurate Mass: 580.142825

Percentage Composition: C 53.80%; H 4.86%; O 41.34%

Biological Source: Isol. from *Swertia perennis*

Physical Description: Cryst. (MeOH)

Melting Point: Mp 205 dec.°

>>Derivative: 2"-*O*-β-D-Xylopyranosyl

Synonym(s): Homoadonivernite

CAS Registry Number: 27708-61-8

Extra CAS Registry Numbers(s): 53563-66-9

Molecular Formula: C₂₆H₂₈O₁₅

Molecular Weight: 580.498

Accurate Mass: 580.142825

Percentage Composition: C 53.80%; H 4.86%; O 41.34%

Biological Source: Constit. of *Desmodium canadense*

Melting Point: Mp 197-205°