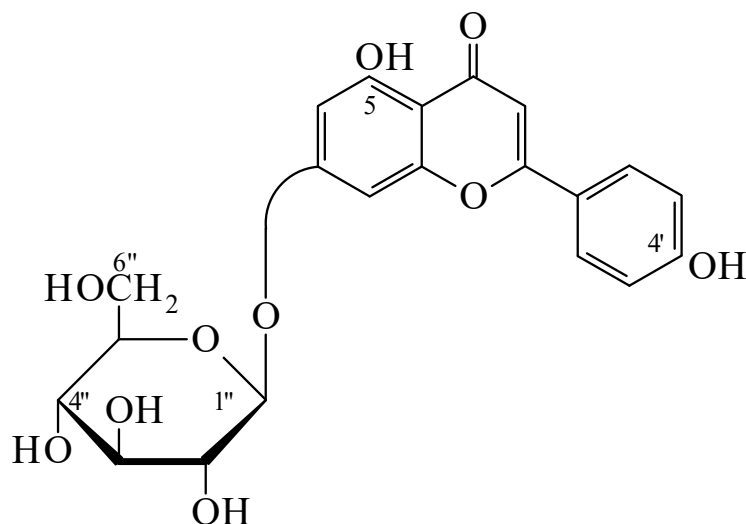




>>Entry Name: **Cosmosiin**

Synonym(s): 7-*O*-β-D-Glucopyranosyloxy-4',5-dihydroxyflavone. Apigenin 7-*O*-glucoside. Cosmetin. Apigetrin



CAS Registry Number: 578-74-5

Related CAS Registry Numbers(s): 36790-49-5 86546-87-4 105815-90-5

Molecular Formula: C₂₁H₂₀O₁₀

Molecular Weight: 432.383

Accurate Mass: 432.10565

Percentage Composition: C 58.34%; H 4.66%; O 37.00%

Biological Source: Constit. of flowers of *Cosmos bipinnatus*, *Zinnia elegans* and other plant spp.

Use/Importance: Anti-HIV agent

Physical Description: Yellow needles (EtOH or Me₂CO)

Melting Point: Mp 178°. Mp 203°. Mp 229-232°

Optical Rotation: [α]_D -64 (Py)

Other Data: Forms a dihydrate, Mp 218-220°

>>Derivative: 6''-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 *Phoenix canariensis*

Physical Description: No phys. props. reported

>>Derivative: 4'-*O*-β-D-Glucopyranoside

Synonym(s): Apigenin 4',7-diglucoside

CAS Registry Number: 31737-50-5

Molecular Formula: C₂₇H₃₀O₁₅

Molecular Weight: 594.525

Accurate Mass: 594.158475

Percentage Composition: C 54.55%; H 5.09%; O 40.37%

Biological Source: Isol. from pollen of *Taxus baccata* and seeds of *Crotalaria juncea*

>>Derivative: 2''-Ac

Synonym(s): Apigenin 7-*O*-(2''-*O*-acetylglucoside)

CAS Registry Number: 75357-75-4

Molecular Formula: C₂₃H₂₂O₁₁

Molecular Weight: 474.42

Accurate Mass: 474.116215

Percentage Composition: C 58.23%; H 4.67%; O 37.10%

Biological Source: Isol. from *Matricaria chamomilla*

Physical Description: No phys. props. reported