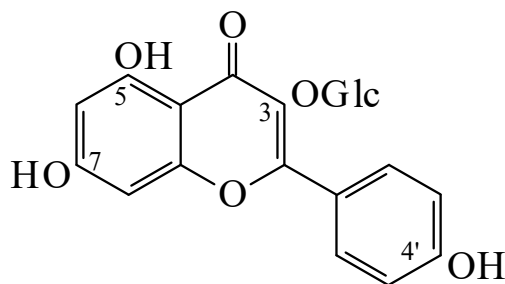




>>Entry Name: Astragalin

ENTRY UNDER REVIEW

Synonym(s): 3-*O*-β-D-Glucopyranosyloxy-4',5,7-trihydroxyflavone. Kaempferol 3-glucoside



CAS Registry Number: 480-10-4

Related CAS Registry Numbers(s): 85899-03-2 94535-60-1

Molecular Formula: C₂₁H₂₀O₁₁

Molecular Weight: 448.382

Accurate Mass: 448.100565

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

Source/Synthesis: Present in red wine

Biological Source: Isol. from *Astragalus* spp. and many other plant spp.

Use/Importance: Immunostimulant

Physical Description: Yellow needles

Melting Point: Mp 178°

Optical Rotation: [α]_D¹⁸+16.9 (c, 0.62 in MeOH)

Calculated Log P Data: Log P -2.32 (calc)

>>Derivative: 3"-*O*-Sulfate

CAS Registry Number: 85290-33-1

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 *Cystopteris fragilis*

>>Derivative: 6"-*O*-Sulfate

CAS Registry Number: 85290-34-2

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 *Cystopteris fragilis*

>>Derivative: 7-*O*-α-L-Arabinopyranoside

CAS Registry Number: 71539-82-7

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 *Loxsoma cunninghamii*

>>Derivative: 7-*O*-Xylopyranoside

CAS Registry Number: 61032-88-0

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 *Takakia lepidozoides* and *Rubus* spp.