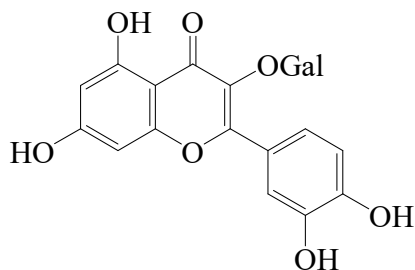




>>Entry Name: Hyperin, 8CI

Synonym(s): 3-*O*-β-D-Galactopyranosyloxy-3',4',5,7-tetrahydroxyflavone. Quercetin 3-galactoside. Hyperoside



CAS Registry Number: 482-36-0

Related CAS Registry Numbers(s): 30113-33-8 56508-10-2 77133-40-5 124086-76-6

Molecular Formula: C₂₁H₂₀O₁₂

Molecular Weight: 464.382

Accurate Mass: 464.09548

Percentage Composition: C 54.32%; H 4.34%; O 41.34%

Biological Source: Occurs widely in plants, e.g. in apple peel, *Crataegus laevigata* (hawthorn), *Hypericum perforatum*, *Betula*, *Juglans* and many other spp. Present in almost all of 60 investigated spp. in the Polygonaceae (Hänsel *et al*, 1954)

Biological Use/Importance: Shows vasodilatory activity and exerts a positive inotropic effect on heart muscle. Antihypertensive agent. Active ingredient of herbal remedies containing hawthorn extract

Physical Description: Yellow needles (EtOH)

Melting Point: Mp 232-233 dec.°

Optical Rotation: [α]_D²⁰ -83 (c, 0.2 in Py)

Calculated Log P Data: Log P -2.92 (calc)

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

CAS Registry Number: 99816-58-7

Molecular Formula: C₂₆H₂₈O₁₆

Molecular Weight: 596.498

Accurate Mass: 596.13774

Percentage Composition: C 52.35%; H 4.73%; O 42.92%

Biological Source: Isol. from *Securidaca diversifolia*

Physical Description: Yellow powder

Melting Point: Mp 183-188°

>>Derivative: 2"-*O*-β-D-Apiofuranosyl, 6"-*O*-α-L-rhamnopyranosyl

CAS Registry Number: 165880-62-6

Molecular Formula: C₃₂H₃₈O₂₀

Molecular Weight: 742.64

Accurate Mass: 742.19565

Percentage Composition: C 51.75%; H 5.16%; O 43.09%

Biological Source: Constit. of *Chenopodium pallidicaule* (Chenopodaceae)

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

CAS Registry Number: 13241-30-0

Molecular Formula: C₂₆H₂₈O₁₆

Molecular Weight: 596.498

Accurate Mass: 596.13774

Percentage Composition: C 52.35%; H 4.73%; O 42.92%

Biological Source: Isol. from *Hydrocotyle vulgaris*