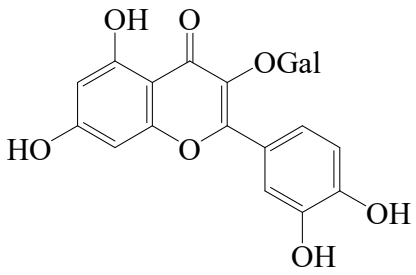
>>**Entry Name: Hyperin,** 8CI

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: $C_{21}H_{20}O_{12}$
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 intropic 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: $[\alpha]_D^{20}$ –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: $C_{26}H_{28}O_{16}$
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: $C_{32}H_{38}O_{20}$
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: $C_{26}H_{28}O_{16}$
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*