



Melting Point: Mp 200 dec.°

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

Synonym(s): Jaceidin 4'-glucuronide

Molecular Formula: C₂₄H₂₄O₁₄

Molecular Weight: 536.445

Accurate Mass: 536.11661

Percentage Composition: C 53.74%; H 4.51%; O 41.75%

Biological Source: Constit. of *Spinacia oleracea*

>>**Derivative:** 7-O-[α-L-Rhamnopyranosyl-(1→2)-β-D-glucopyranoside]

Synonym(s): Jaceidin 7-neohesperidoside

CAS Registry Number: 101361-05-1

Molecular Formula: C₃₀H₃₆O₁₇

Molecular Weight: 668.604

Accurate Mass: 668.195255

Percentage Composition: C 53.89%; H 5.43%; O 40.68%

Biological Source: Isol. from *Cassia occidentalis*

Melting Point: Mp 245 dec.°

Solubility: BERDY SOL: Sol. MeOH, EtOAc

UV: [neutral] λ_{max} 255 (); 350 () (EtOH) (Berdy) [base] λ_{max} 250 (); 400 () (EtOH-NaOH) (Berdy)

>>**Derivative:** Tri-Ac

CAS Registry Number: 14397-69-4

Molecular Formula: C₂₄H₂₂O₁₁

Molecular Weight: 486.431

Percentage Composition: C 59.26%; H 4.56%; O 36.18%

Melting Point: Mp 163-164°

>>**Derivative:** 7-O-(3-Methyl-2-butenyl)

Synonym(s): 4',5-Dihydroxy-3,3',6-trimethoxy-7-prenyloxyflavone

CAS Registry Number: 160036-27-1

Molecular Formula: C₂₃H₂₄O₈

Molecular Weight: 428.438

Accurate Mass: 428.14712

Percentage Composition: C 64.48%; H 5.65%; O 29.87%

Biological Source: Constit. of *Boronia coerulescens*

Physical Description: Yellow needles (EtOAc/petrol)

Melting Point: Mp 149°

References:

- Farkas, L. *et al.*, *Chem. Ber.*, 1964, **97**, 610, (*Jacein*)
Bowie, J.H. *et al.*, *Aust. J. Chem.*, 1966, **19**, 1627, (*ms*)
Fukui, H. *et al.*, *Bull. Chem. Soc. Jpn.*, 1968, **41**, 1413, (*synth, uv, pmr*)
Fukui, H. *et al.*, *Experientia*, 1968, **24**, 108, (*synth*)
Wollenweber, E. *et al.*, *Z. Naturforsch., B*, 1972, **27**, 567, (*isol*)
Schels, H. *et al.*, *Phytochemistry*, 1977, **16**, 1019, (*Jacein, ms*)
Tiwari, R.D. *et al.*, *Phytochemistry*, 1977, **16**, 1107, (*7-rhamnoside*)
Goudard, M. *et al.*, *Phytochemistry*, 1978, **17**, 145, (*ms*)
Voirin, B., *Phytochemistry*, 1983, **22**, 2107, (*uv*)
Goodwin, R.S. *et al.*, *J. Nat. Prod.*, 1984, **47**, 711, (*4'-sulfate*)
Singh, M. *et al.*, *Planta Med.*, 1985, 525, (*7-neohesperidoside*)

Sepulveda-Boza, S. *et al.*, *Phytochemistry*, 1993, **32**, 1301, (*Jaceidin 5-glucoside*)
Ahsan, M. *et al.*, *Phytochemistry*, 1994, **37**, 259, (*7-prenyl ether*)