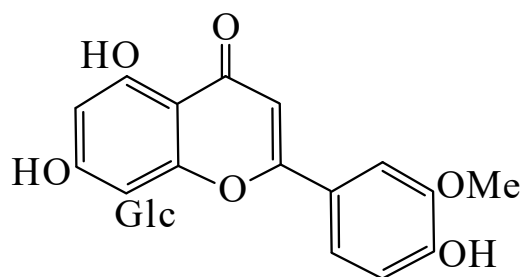




>>Entry Name: 8-Glucosyl-4',5,7-trihydroxy-3'-methoxyflavone

Synonym(s): 8-Glucopyranosyl-5,7-dihydroxy-2-(4-hydroxy-3-methoxyphenyl)-4*H*-1-benzopyran-4-one, 9Cl



CAS Registry Number: 301-16-6

Molecular Formula: C<sub>22</sub>H<sub>22</sub>O<sub>11</sub>

Molecular Weight: 462.409

Accurate Mass: 462.116215

Percentage Composition: C 57.14%; H 4.80%; O 38.06%

>>Variant:  $\alpha$ -D-Pyranose-form

Synonym(s): Episcoparin

CAS Registry Number: 53156-94-8

Molecular Formula: C<sub>22</sub>H<sub>22</sub>O<sub>11</sub>

Molecular Weight: 462.409

Accurate Mass: 462.116215

Percentage Composition: C 57.14%; H 4.80%; O 38.06%

Melting Point: Mp 230-232°

Other Data: Tentative struct.

>>Derivative: 7-*O*- $\beta$ -D-Glucopyranoside

Synonym(s): Knautinoside

CAS Registry Number: 53178-02-2

Molecular Formula: C<sub>28</sub>H<sub>32</sub>O<sub>16</sub>

Molecular Weight: 624.551

Accurate Mass: 624.16904

Percentage Composition: C 53.85%; H 5.16%; O 40.99%

Biological Source: Isol. from *Knautia montana*

Physical Description: Cryst. (MeOH aq.)

Melting Point: Mp 245-248°

Other Data: Rare natural  $\alpha$ -D-glucopyranoside. Struct. not confirmed

>>Variant:  $\beta$ -D-Pyranose-form

Synonym(s): Scoparin‡, Scoparoside

Molecular Formula: C<sub>22</sub>H<sub>22</sub>O<sub>11</sub>

Molecular Weight: 462.409

Accurate Mass: 462.116215

Percentage Composition: C 57.14%; H 4.80%; O 38.06%

Biological Source: Constit. of *Cytisus scoparius*, *Sarothamnus scoparius* and other plants

Use/Importance: Diuretic

Physical Description: Light-yellow needles (MeOH aq.)

Melting Point: Mp 253 dec.°

Solubility: Sol. hot H<sub>2</sub>O

Calculated Log P Data: Log P -2.34 (calc)

>>Derivative: 6''-*O*-Ac

Synonym(s): 6''-*O*-Acetylscoparin

CAS Registry Number: 65725-05-5

Molecular Formula: C<sub>24</sub>H<sub>24</sub>O<sub>12</sub>

Molecular Weight: 504.446

Accurate Mass: 504.12678

Percentage Composition: C 57.14%; H 4.80%; O 38.06%

Biological Source: Constit. of *Sarothamnus scoparius*