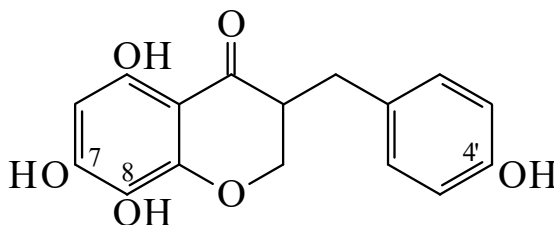




>>Entry Name: 5,7,8-Trihydroxy-3-(4-hydroxybenzyl)-4-chromanone

Synonym(s): 2,3-Dihydro-5,7,8-trihydroxy-3-[(4-hydroxyphenyl)methyl]-4*H*-1-benzopyran-4-one



Molecular Formula: C₁₆H₁₄O₆

Molecular Weight: 302.283

Accurate Mass: 302.07904

Percentage Composition: C 63.57%; H 4.67%; O 31.76%

>>Derivative: 7-Me ether

Synonym(s): 5,8-Dihydroxy-3-(4-hydroxybenzyl)-7-methoxy-4-chromanone. 8-*O*-Demethyl-7-*O*-methyl-3,9-dihydropunctatin

CAS Registry Number: 93078-83-2

Molecular Formula: C₁₇H₁₆O₆

Molecular Weight: 316.31

Accurate Mass: 316.09469

Percentage Composition: C 64.55%; H 5.10%; O 30.35%

Biological Source: Isol. from *Muscari comosum*

Physical Description: Cryst. (CHCl₃)

Melting Point: Mp 172-174°

>>Derivative: 7-Me ether, 8-Ac

CAS Registry Number: 99877-75-5

Molecular Formula: C₁₉H₁₈O₇

Molecular Weight: 358.347

Accurate Mass: 358.105255

Percentage Composition: C 63.68%; H 5.06%; O 31.25%

Biological Source: From *Muscari comosum*

Physical Description: Cryst. (CHCl₃/hexane)

Melting Point: Mp 155-156°

Optical Rotation: [α]_D -18 (c, 0.3 in MeOH)

>>Derivative: 8-Me ether

Synonym(s): 5,7-Dihydroxy-3-(4-hydroxybenzyl)-8-methoxy-4-chromanone. 3,9-Dihydropunctatin

CAS Registry Number: 27245-79-0

Molecular Formula: C₁₇H₁₆O₆

Molecular Weight: 316.31

Accurate Mass: 316.09469

Percentage Composition: C 64.55%; H 5.10%; O 30.35%

Biological Source: Constit. of *Eucomis punctata*

Physical Description: Yellow cryst.

Melting Point: Mp 204-206°

Optical Rotation: [α]_D²⁴ -37 (dioxan)

>>Derivative: 4',8-Di-Me ether

Synonym(s): 5,7-Dihydroxy-8-methoxy-3-(4-methoxybenzyl)-4-chromanone. 4'-*O*-Methyl-3,9-dihydropunctatin

CAS Registry Number: 27245-80-3

Molecular Formula: C₁₈H₁₈O₆

Molecular Weight: 330.337

Accurate Mass: 330.11034

Percentage Composition: C 65.45%; H 5.49%; O 29.06%

Biological Source: Constit. of *Eucomis punctata*

Use/Importance: Amorph.