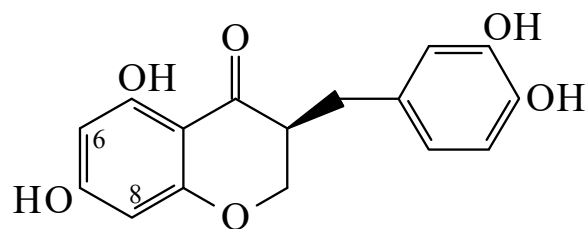




>>Entry Name: 3-(3,4-Dihydroxybenzyl)-5,7-dihydroxy-4-chromanone

Synonym(s): 3-[(3,4-Dihydroxyphenyl)methyl]-2,3-dihydro-5,7-dihydroxy-4*H*-1-benzopyran-4-one



CAS Registry Number: 107585-71-7

Related CAS Registry Numbers(s): 96910-99-5 120185-49-1

Molecular Formula: C₁₆H₁₄O₆

Molecular Weight: 302.283

Accurate Mass: 302.07904

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

Biological Source: Constit. of *Muscari armeniacum* and *Muscari botryoides*

Physical Description: Oil

>>Derivative: 5-Me ether

Synonym(s): 3-(3,4-Dihydroxybenzyl)-7-hydroxy-5-methoxy-4-chromanone

CAS Registry Number: 107585-72-8

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 *Muscari* spp.

Physical Description: Vitreous solid

Optical Rotation: $[\alpha]_D -59$ (c, 0.6 in MeOH)

>>Derivative: 4'-Me ether

Synonym(s): 5,7-Dihydroxy-3-(3-hydroxy-4-methoxybenzyl)-4-chromanone. 3'-Hydroxy-3,9-dihydroeucomin

CAS Registry Number: 107585-75-1

Molecular Formula: C₁₇H₁₆O₆

Molecular Weight: 316.31

Accurate Mass: 316.09469

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

Biological Source: From *Muscari comosum* and *Scilla nervosa* ssp. *rigidifolia*

Physical Description: Cryst. (CHCl₃)

Melting Point: Mp 140-142° (136-138°)

Optical Rotation: $[\alpha]_D -51$ (c, 0.7 in MeOH)

>>Derivative: 3',4'-Di-Me ether

Synonym(s): 3-(3,4-Dimethoxybenzyl)-5,7-dihydroxy-4-chromanone

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 the bulbs of *Scilla nervosa* ssp. *rigidifolia*

Physical Description: Powder

Melting Point: Mp 183-185°

Optical Rotation: $[\alpha]_D^{25} -74.7$ (c, 0.39 in MeOH)

UV: [neutral] $\lambda_{\max}$ 214 (log ϵ 4.38); 288 (log ϵ 4.35) (MeOH)