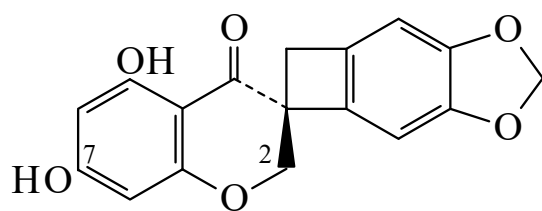




>>Entry Name: Scillascillin

Synonym(s): 5,7-Dihydroxyspiro[2*H*-1-benzopyran-3-(4*H*),5'-(6'*H*)-cyclobuta[*f*][1,3]benzodioxol]-4-one, 9*Cl*



Absolute
conf guration

Molecular Formula: C₁₇H₁₂O₆

Molecular Weight: 312.278

Accurate Mass: 312.06339

Percentage Composition: C 65.39%; H 3.87%; O 30.74%

>>Variant: (*R*)-form

CAS Registry Number: 52706-07-7

Molecular Formula: C₁₇H₁₂O₆

Molecular Weight: 312.278

Accurate Mass: 312.06339

Percentage Composition: C 65.39%; H 3.87%; O 30.74%

Biological Source: Constit. of *Scilla scilloides*

Physical Description: Plates

Melting Point: Mp 210-211°

Optical Rotation: $[\alpha]_{\text{D}}^{14} +40$ (dioxan)

>>Derivative: 2-Hydroxy

Synonym(s): 2-Hydroxyscillascillin

CAS Registry Number: 142546-09-6

Molecular Formula: C₁₇H₁₂O₇

Molecular Weight: 328.278

Accurate Mass: 328.058305

Percentage Composition: C 62.20%; H 3.68%; O 34.12%

Biological Source: Isol. from the bulbs of *Chionodoxa luciliae*

>>Derivative: 2-Hydroxy, 7-Me ether

CAS Registry Number: 52096-50-1

Molecular Formula: C₁₈H₁₄O₇

Molecular Weight: 342.304

Accurate Mass: 342.073955

Percentage Composition: C 63.16%; H 4.12%; O 32.72%

Biological Source: From *Scilla scilloides*

Physical Description: Prisms

Melting Point: Mp 188-189°

Optical Rotation: $[\alpha]_{\text{D}}^{14} -11.5 \rightarrow +79.2$ (18 h)

References:

Kawasaki, T. *et al.*, *Tet. Lett.*, 1973, 4569, (*struct*)

Rawal, V.H. *et al.*, *Tet. Lett.*, 1983, **24**, 5581, (*synth*)

Corsaro, M.M. *et al.*, *Phytochemistry*, 1992, **31**, 1395, (*2-Hydroxyscillascillin*)