



>>Derivative: 4-Deoxy, 4-chloro

Synonym(s): 3*R*-Hydroxypterosin H

CAS Registry Number: 84299-81-0

Molecular Formula: C₁₅H₁₉ClO₂

Molecular Weight: 266.767

Accurate Mass: 266.107357

Percentage Composition: C 67.54%; H 7.18%; Cl 13.29%; O 12.00%

Biological Source: From *Pteris aquilinum* subsp. *wightianum*

Physical Description: Syrup

>>Variant: (S)-form

CAS Registry Number: 34169-70-5

Molecular Formula: C₁₅H₂₀O₃

Molecular Weight: 248.321

Accurate Mass: 248.141245

Percentage Composition: C 72.55%; H 8.12%; O 19.33%

Biological Source: Constit. of *Pteridium aquilinum*, *Hypolepis punctata* and *Pteris wallichiana*

Melting Point: Mp 180-183°

Optical Rotation: [α]_D −15.4

>>Derivative: 4-*O*-β-D-Glucopyranoside

Synonym(s): Pteroside D

CAS Registry Number: 35943-38-5

Molecular Formula: C₂₁H₃₀O₈

Molecular Weight: 410.463

Accurate Mass: 410.19407

Percentage Composition: C 61.45%; H 7.37%; O 31.18%

Biological Source: Constit. of *Pteridium aquilinum*, *Hypolepis punctata* and *Pteris wallichiana*

Physical Description: Amorph.

Optical Rotation: [α]_D −52.4

>>Derivative: 4-Me ether

Synonym(s): Dennstopterosin

CAS Registry Number: 74730-12-4

Molecular Formula: C₁₆H₂₂O₃

Molecular Weight: 262.348

Accurate Mass: 262.156895

Percentage Composition: C 73.25%; H 8.45%; O 18.30%

Biological Source: Isol. from *Dennstaedtia wilfordii*

Physical Description: Oil

Optical Rotation: [α]_D −64.2 (CHCl₃)

References:

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Murakami, T. *et al.*, *Chem. Pharm. Bull.*, 1976, **24**, 2241, (*3S-Pteroside D*)
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