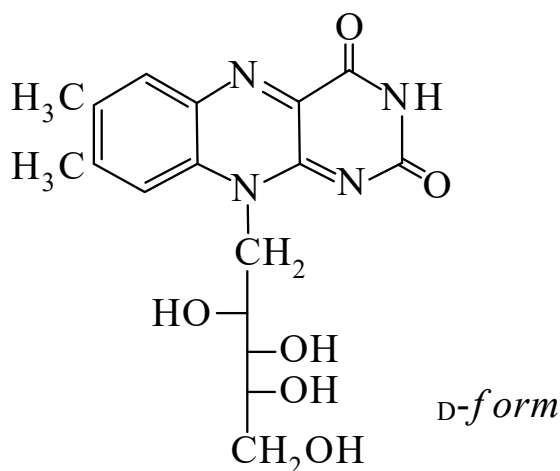




>>Entry Name: Araboflavin

Synonym(s): 1-Deoxy-1-(3,4-dihydro-7,8-dimethyl-2,4-dioxobenzo[g]pteridin-10(2*H*)-yl)arabinitol, 9Cl. 7,8-Dimethyl-10-(*arabino*-2,3,4,5-tetrahydroxypentyl)isoalloxazine, 8Cl



CAS Registry Number: 482-11-1

Molecular Formula: C₁₇H₂₀N₄O₆

Molecular Weight: 376.368

Accurate Mass: 376.138286

Percentage Composition: C 54.25%; H 5.36%; N 14.89%; O 25.51%

>>Variant: D-form

CAS Registry Number: 5978-87-0

Molecular Formula: C₁₇H₂₀N₄O₆

Molecular Weight: 376.368

Accurate Mass: 376.138286

Percentage Composition: C 54.25%; H 5.36%; N 14.89%; O 25.51%

Use/Importance: Riboflavine antagonist

Physical Description: Orange-yellow needles

Melting Point: Mp 298 , ° (303°)

Optical Rotation: $[\alpha]_{\text{D}}^{20} +78.6$ (c, 0.51 in 0.1N NaOH)

Other Data: Bitter taste

>>Derivative: 2,3,4-Tri-Ac

Melting Point: Mp 209-210°

>>Derivative: 2,3,4,5-Tetra-Ac

CAS Registry Number: 5978-88-1

Melting Point: Mp 260°

>>Variant: L-form

CAS Registry Number: 33210-89-8

Molecular Formula: C₁₇H₂₀N₄O₆

Molecular Weight: 376.368

Accurate Mass: 376.138286

Percentage Composition: C 54.25%; H 5.36%; N 14.89%; O 25.51%

Melting Point: Mp 296-299°

Optical Rotation: $[\alpha]_{\text{D}} -108$ (0.05N NaOH) (H₂O)

>>Derivative: 2,3,4,5-Tetra-Ac

Melting Point: Mp 260°