



Rare Chemicals Library: S58365-0

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

CAS Registry Number: 752-13-6

Molecular Formula: C₂₅H₂₈N₄O₁₀

Molecular Weight: 544.517

Accurate Mass: 544.180546

Percentage Composition: C 55.15%; H 5.18%; N 10.29%; O 29.38%

Melting Point: Mp 250-252°

>>Derivative: Tetra-Ac, 3*N*-Me

CAS Registry Number: 21066-33-1

Molecular Formula: C₂₆H₃₀N₄O₁₀

Molecular Weight: 558.544

Accurate Mass: 558.196196

Percentage Composition: C 55.91%; H 5.41%; N 10.03%; O 28.64%

Melting Point: Mp 189-191°

>>Derivative: 2',3',4',5'-Tetrabutanoyl

Synonym(s): Riboflavine 2',3',4',5'-tetrabutanoate, 9Cl. Riboflavin butyrate. Riboflavin tetrabutyrate. Vitamin B₂ tetrabutyrate. Many other names

CAS Registry Number: 752-56-7

Molecular Formula: C₃₃H₄₄N₄O₁₀

Molecular Weight: 656.731

Accurate Mass: 656.305746

Percentage Composition: C 60.35%; H 6.75%; N 8.53%; O 24.36%

Use/Importance: Antiatherosclerotic agent. Widely used food additive and antihyperlipidaemic agent

Physical Description: Transparent red plates (MeOH)

Melting Point: Mp 149° (142-146°)

>>Derivative: 2',3',4',5'-Tetranicotinate

Synonym(s): Riboflavine 2',3',4',5'-tetra-3-pyridinecarboxylate, 9Cl. Riboflavine nicotinate. RN-4

CAS Registry Number: 14984-66-8

Molecular Formula: C₄₁H₃₂N₈O₁₀

Molecular Weight: 796.751

Accurate Mass: 796.224142

Percentage Composition: C 61.81%; H 4.05%; N 14.06%; O 20.08%

Use/Importance: Antilipidaemic agent

Melting Point: Mp 154-155°

>>Derivative: 5'-α-D-Ribofuranoside

Synonym(s): Lampteroflavin

CAS Registry Number: 114590-52-2

Molecular Formula: C₂₂H₂₈N₄O₁₀

Molecular Weight: 508.484

Accurate Mass: 508.180546

Percentage Composition: C 51.97%; H 5.55%; N 11.02%; O 31.46%

Biological Source: Isol. from the toxic luminous mushroom *Lampteromyces japonicus*

UV: [neutral] λ_{max} 265 (ε); 368 (ε); 445 (ε) (H₂O) (Derep)

Other Data: Fluorescent. λ_{max} 265, 368, 445 nm (H₂O)