



Optical Rotation: $[\alpha]_{\text{D}}^{22} -51$ (Py)

>> **Derivative:** *N,O*^{2'},*O*^{3'},*O*^{5'}-Tetrabenzoyl

CAS Registry Number: 28288-50-8

Molecular Formula: C₃₈H₂₉N₅O₉

Molecular Weight: 699.675

Accurate Mass: 699.19653

Percentage Composition: C 65.23%; H 4.18%; N 10.01%; O 20.58%

Melting Point: Mp 168-169°

Other Data: λ_{max} 285 (ϵ 15 200), 267 (17 100), 233 nm (54 300) (95% EtOH)

>> **Derivative:** 2',3'-*O*-Isopropylidene

CAS Registry Number: 362-76-5

Molecular Formula: C₁₃H₁₇N₅O₅

Molecular Weight: 323.308

Accurate Mass: 323.12297

Percentage Composition: C 48.30%; H 5.30%; N 21.66%; O 24.74%

Melting Point: Mp 299 dec.°

Optical Rotation: $[\alpha]_{\text{D}}^{18} -36.3$ (DMF)

Sigma: I4377

>> **Derivative:** 2',3'-*O*-Benzylidene

CAS Registry Number: 14042-37-6

Molecular Formula: C₁₇H₁₇N₅O₅

Molecular Weight: 371.352

Accurate Mass: 371.12297

Percentage Composition: C 54.98%; H 4.61%; N 18.86%; O 21.54%

Melting Point: Mp 296 dec.°

Optical Rotation: $[\alpha]_{\text{D}}^{18} -98.5$ (Py)

>> **Derivative:** 2',3'-*O*-Benzylidene, 5'-Ac

Molecular Formula: C₁₉H₁₉N₅O₆

Molecular Weight: 413.389

Accurate Mass: 413.133535

Percentage Composition: C 55.20%; H 4.63%; N 16.94%; O 23.22%

Melting Point: Mp 253-254°

>> **Derivative:** 5'-Trityl

CAS Registry Number: 27552-66-5

Molecular Formula: C₂₉H₂₇N₅O₅

Molecular Weight: 525.563

Accurate Mass: 525.20122

Percentage Composition: C 66.28%; H 5.18%; N 13.33%; O 15.22%

Melting Point: Mp 278-279°

Optical Rotation: $[\alpha]_{\text{D}}^{18} +63.6$ (Py)

>> **Derivative:** 3'-Phosphate

>> **Derivative:** 5'-Phosphate

>> **Derivative:** 5'-Diphosphate

>> **Derivative:** 5'-Triphosphate