



Molecular Weight: 421.433
Accurate Mass: 421.105605
Percentage Composition: C 48.45%; H 4.54%; N 16.62%; O 22.78%; S 7.61%
Melting Point: Mp 151-153°
Aldrich: 85278-3
Sigma: T2131

>>**Derivative:** 5'-*O*-Sulfamoyl
Synonym(s): Antibiotic AI-R 2748. AI-R 2748

CAS Registry Number: 25030-31-3

Molecular Formula: C₁₀H₁₄N₆O₆S
Molecular Weight: 346.323
Accurate Mass: 346.069554
Percentage Composition: C 34.68%; H 4.07%; N 24.27%; O 27.72%; S 9.26%
Biological Source: Isol. from *Streptomyces* sp.
Biological Use/Importance: Cytotoxic to P388 cells and inhibitory to bacteria
Physical Description: Cryst. + 1H₂O (H₂O)
Melting Point: Mp 153-155 (softened) 165° dec.°
Optical Rotation: [α]_D³³ -33.6 (c, 1.0 in DMF)

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

CAS Registry Number: 362-75-4

Molecular Formula: C₁₃H₁₇N₅O₄
Molecular Weight: 307.308
Accurate Mass: 307.128055
Percentage Composition: C 50.81%; H 5.58%; N 22.79%; O 20.83%
Physical Description: Cryst. (EtOH)
Melting Point: Mp 220°
Aldrich: I-2240-4
Fluka: 59440
Sigma: I4002

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

CAS Registry Number: 15888-38-7

Molecular Formula: C₁₅H₁₉N₅O₅
Molecular Weight: 349.346
Accurate Mass: 349.13862
Percentage Composition: C 51.57%; H 5.48%; N 20.05%; O 22.90%
Physical Description: Cryst. (CHCl₃/Et₂O)
Melting Point: Mp 170-172°
Aldrich: 85801-3
Sigma: I4127

>>**Derivative:** 6-*N*-Me
Synonym(s): *N*⁶-Methyladenosine

CAS Registry Number: 1867-73-8

Molecular Formula: C₁₁H₁₅N₅O₄
Molecular Weight: 281.271
Accurate Mass: 281.112405
Percentage Composition: C 46.97%; H 5.38%; N 24.90%; O 22.75%
Biological Source: Modified nucleoside present in tRNAs
Physical Description: Hygroscopic cryst. (EtOAc or MeOH)
Melting Point: Mp 135-140°. Mp 208 dec.° (double Mp.)
Optical Rotation: [α]_D²⁶ -54 (c, 0.63 in H₂O)
UV: [neutral] $\lambda_{\max}$ 265 (ϵ 16300) (H₂O)

>>**Derivative:** 6*N*,6*N*-Di-Me
see N,N-Dimethyladenosine, [BVV03-D](#)

>>**Derivative:** 6*N*-(3-Methyl-2-butenyl)