



UV: [neutral] $\lambda_{\max}$ 210 (ϵ 16600); 267 (ϵ 18200) (H₂O)

>>Derivative: 9-(2-Deoxy- β -D-ribofuranosyl)

Synonym(s): Zeatin 2-deoxyribofuranoside. 2'-Deoxyzeatin riboside

CAS Registry Number: 124325-91-3

Molecular Formula: C₁₅H₂₁N₅O₄

Molecular Weight: 335.362

Accurate Mass: 335.159355

Percentage Composition: C 53.72%; H 6.31%; N 20.88%; O 19.08%

Biological Source: Prod. by *Pseudomonas amygdali*

Biological Use/Importance: Cytokinin. Inhibitor of DNA polymerase I

Physical Description: Oil

Optical Rotation: $[\alpha]_D^{25}$ -13.5 (c, 0.35 in EtOH)

>>Derivative: Deoxy

Synonym(s): 6-(3-Methyl-2-butenylamino)purine. N⁶-Isopentenyladenine. 6-(γ,γ -Dimethylallylamino)purine

CAS Registry Number: 2365-40-4

Molecular Formula: C₁₀H₁₃N₅

Molecular Weight: 203.246

Accurate Mass: 203.117095

Percentage Composition: C 59.10%; H 6.45%; N 34.46%

Biological Source: Isol. from *Corynebacterium fascians*

Biological Use/Importance: Cytokinin

Physical Description: Fine yellow needles (as picrate)

Melting Point: Mp 221-223° (picrate)

>>Derivative: 2-Hydroxy

Synonym(s): 2-Hydroxyzeatin

CAS Registry Number: 29736-32-1

Molecular Formula: C₁₀H₁₃N₅O₂

Molecular Weight: 235.245

Accurate Mass: 235.106925

Percentage Composition: C 51.06%; H 5.57%; N 29.77%; O 13.60%

Biological Source: Prod. by *Pseudomonas syringae*

Physical Description: Oil

Solubility: Sol. H₂O

UV: [neutral] $\lambda_{\max}$ 270 () (MeOH)

>>Variant: (Z)-form

Synonym(s): cis-Zeatin

CAS Registry Number: 32771-64-5

Molecular Formula: C₁₀H₁₃N₅O

Molecular Weight: 219.246

Accurate Mass: 219.11201

Percentage Composition: C 54.78%; H 5.98%; N 31.94%; O 7.30%

Biological Source: A modified nucleoside present in tRNAs. Isol. from *Corynebacterium fascians*

Biological Use/Importance: At least 50 times less active than the (E)-form

Melting Point: Mp 206-208°

Sigma: Z0750

>>Derivative: 9- β -D-Glucopyranosyl

Synonym(s): cis-Zeatin 9-glucoside

CAS Registry Number: 169565-72-4

Molecular Formula: C₁₆H₂₃N₅O₆

Molecular Weight: 381.388

Accurate Mass: 381.164835

Percentage Composition: C 50.39%; H 6.08%; N 18.36%; O 25.17%

Biological Source: Isol. from *Solanum tuberosum*