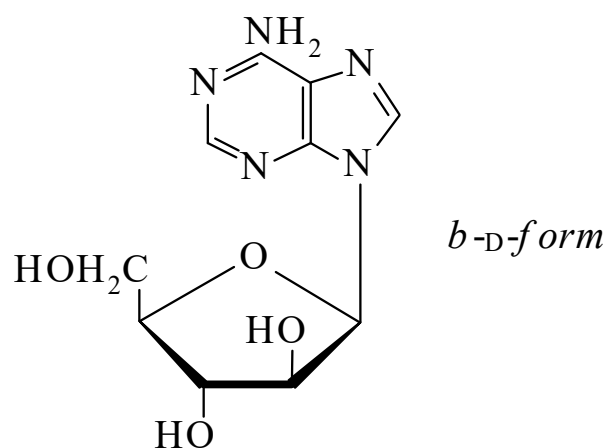




>>Entry Name: 9-Arabinofuranosyladenine, 8Cl

Synonym(s): 9-Arabinofuranosyl-9H-purin-6-amine, 9Cl



CAS Registry Number: 2006-02-2

Related CAS Registry Numbers(s): 24356-66-9 71002-10-3

Molecular Formula: C₁₀H₁₃N₅O₄

Molecular Weight: 267.244

Accurate Mass: 267.096755

Percentage Composition: C 44.94%; H 4.90%; N 26.21%; O 23.95%

>>Variant: α-D-form

CAS Registry Number: 3228-71-5

Molecular Formula: C₁₀H₁₃N₅O₄

Molecular Weight: 267.244

Accurate Mass: 267.096755

Percentage Composition: C 44.94%; H 4.90%; N 26.21%; O 23.95%

Melting Point: Mp 208°

Optical Rotation: [α]_D¹⁷+69 (c, 1.1 in H₂O)

Solubility: BERDY SOL: Sol. DMF, acids, bases, DMSO; fairly sol. H₂O, MeOH, butanol; poorly sol. Me₂CO, hexane

UV: [neutral] λ_{max} 262 () (H₂O) (Berdy) [acid] λ_{max} 257 (ε 12700) (HCl) (Berdy) [acid] λ_{max} 257 (ε 12700) (pH 1 buffer) (Berdy) [base] λ_{max} 259 (ε 14000) (pH 13 buffer) (Berdy)

Hazard & Toxicity: BERDY HAZD : LD₅₀ (mus, ipr) 4677 mg/kg

>>Variant: β-D-form

Synonym(s): Vidarabine, BAN, INN, JAN, USAN. Spongoadenosine. Adena-A. Ara-A. Arasena-A. Panavirin. Plosarabine forte. Vira-A. CI 673. NSC 404241. Araadenosine

CAS Registry Number: 5536-17-4

Molecular Formula: C₁₀H₁₃N₅O₄

Molecular Weight: 267.244

Accurate Mass: 267.096755

Percentage Composition: C 44.94%; H 4.90%; N 26.21%; O 23.95%

Biological Source: Isol. from the marine gorgonian *Eunicella cavolini* and *Streptomyces* spp.

Biological Use/Importance: Antiviral agent; shows significant activity against Herpes simplex and vaccinia viruses in cell cultures and in experimental animals. Nucleoside transporter substrate

Physical Description: Needles + ½ H₂O (H₂O)

Melting Point: Mp 257-257.5°

Optical Rotation: [α]_D⁴⁰+12 (c, 0.25 in H₂O). [α]_D²⁷-5 (c, 0.25 in H₂O)

Calculated Log P Data: Log P -2.88 (calc)

UV: [acid] λ_{max} (no shifts reported) (Derep) [base] λ_{max} (no shifts reported) (Derep) [neutral] λ_{max} 260 (ε 12000) (H₂O) (Derep)

Hazard & Toxicity: Human systemic effects when used therapeutically. Adverse ocular effects following topical administration. Exp. reprod. and teratogenic effects (large doses). LD₅₀ (mus, orl) 7.8 mg/kg. Eye irritant

Fluka: 1832

Sigma: A5762