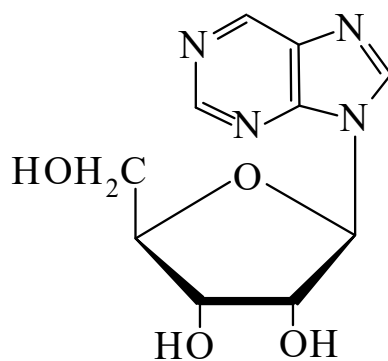




>>Entry Name: Nebularine

ENTRY UNDER REVIEW

Synonym(s): 9-β-D-Ribofuranosyl-9H-purine, 9Cl, 8Cl. Purinosine



CAS Registry Number: 550-33-4

Molecular Formula: C₁₀H₁₂N₄O₄

Molecular Weight: 252.229

Accurate Mass: 252.085856

Percentage Composition: C 47.62%; H 4.80%; N 22.21%; O 25.37%

Biological Source: Isol. from the mushroom *Clitocybe nebularis*, from *Streptomyces yokosukaensis* and *Microbispora* sp. nov.

Use/Importance: Shows tuberculostatic and antimitotic activity. Adenosine deaminase inhibitor. Investigated as an antileukaemic agent in combination therapies

Physical Description: Needles (MeOH)

Melting Point: Mp 182-183°

Optical Rotation: $[\alpha]_D^{35} -46.8$ (c, 2.0 in H₂O)

Other Data: $\lambda_{\max}$ 262.5 (ε 7 020) (H₂O), 262.8 (5 900) (1M HCl), 263 nm (7 110) (pH 9.2)

Hazard & Toxicity: LD₅₀ (rat, scu) 220 mg/kg

Fluka: 82590

Rare Chemicals Library: S45501-6

Sigma: P9278

>>Derivative: 2',3',5'-Tri-Ac

CAS Registry Number: 15981-63-2

Molecular Formula: C₁₆H₁₈N₄O₇

Molecular Weight: 378.341

Accurate Mass: 378.117551

Percentage Composition: C 50.79%; H 4.80%; N 14.81%; O 29.60%

Optical Rotation: $[\alpha]_D^{26} -10.8$ (c, 1.5 in MeOH)

>>Derivative: 6-Fluoro

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