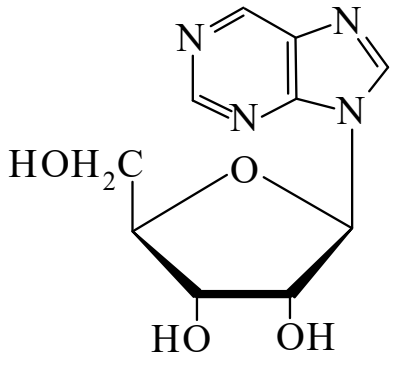
>>**Entry Name: Nebularine**
ENTRY UNDER REVIEW
Synonym(s): 9-β-D-Ribofuranosyl-9*H*-purine, 9CI, 8CI. Purinosine



CAS Registry Number: 550-33-4

Molecular Formula: $C_{10}H_{12}N_4O_4$
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 H_2O)
Other Data: λ_{max} 262.5 (ε 7 020) (H_2O), 262.8 (5 900) (1*M* HCl), 263 nm (7 110) (pH 9.2)
Hazard & Toxicity: LD_{50} (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: $C_{16}H_{18}N_4O_7$
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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