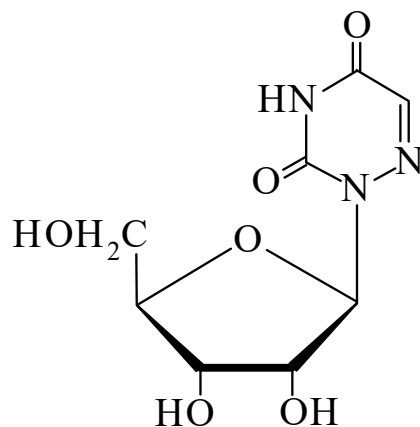




>>Entry Name: 6-Azauridine

Synonym(s): 2-β-D-Ribofuranosyl-1,2,4-triazine-3,5(2*H*,4*H*)-dione, 9Cl. 2-β-D-Ribofuranosyl-*as*-triazine-3,5(2*H*,4*H*)-dione, 8Cl. 1-(β-D-Ribofuranosyl)-6-azauracil. Riboazauracil. NSC 32074



CAS Registry Number: 54-25-1

Molecular Formula: C₈H₁₁N₃O₆

Molecular Weight: 245.191

Accurate Mass: 245.064787

Percentage Composition: C 39.19%; H 4.52%; N 17.14%; O 39.15%

Use/Importance: Pyrimidine antagonist and bacteriostat. Antiviral agent active against human smallpox and viral eye infections. Antineoplastic

Physical Description: Needles (EtOH/Et₂O)

Melting Point: Mp 160-161°

Optical Rotation: [α]_D -132 (Py)

pKa Value: p*K*_{a1} 6.7 (25°)

Other Data: λ_{max} 225 nm (ε 5 754) (50% EtOH aq.)

Hazard & Toxicity: Human teratogen. Exp. reprod. and teratogenic effects. LD₅₀ (rat, ipr) 9400 mg/kg

Aldrich: 11517-7

Sigma: A1882

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

Synonym(s): 2',3',5'-Tri-*O*-acetyl-6-azauridine. **Azaribine**, BAN, INN, USAN. Triazure. NSC 67239. CB 304

CAS Registry Number: 2169-64-4

Molecular Formula: C₁₄H₁₇N₃O₉

Molecular Weight: 371.303

Accurate Mass: 371.096482

Percentage Composition: C 45.29%; H 4.61%; N 11.32%; O 38.78%

Use/Importance: Antiviral agent, also used in treatment of psoriasis. Antineoplastic agent

Development Status: Currently withdrawn; causes thromboembolism in some patients

Melting Point: Mp 102-103°

Hazard & Toxicity: Human systemic effects when used therapeutically. LD₅₀ (rat, orl) 12000 mg/kg

Aldrich: 11518-5

Fluka: 90249

Sigma: A2007

>>Derivative: 5'-Benzoyl

CAS Registry Number: 23477-49-8

Molecular Formula: C₁₅H₁₅N₃O₇

Molecular Weight: 349.299

Accurate Mass: 349.091002

Percentage Composition: C 51.58%; H 4.33%; N 12.03%; O 32.06%

Physical Description: Cryst. (EtOAc)

Melting Point: Mp 156-157°

Optical Rotation: [α]_D²⁴ -90.5 (c, 0.5 in EtOAc)