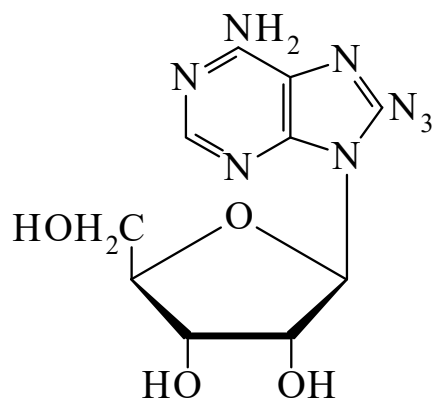




>>Entry Name: 8-Azidoadenosine, 9Cl, 8Cl



CAS Registry Number: 4372-67-2

Molecular Formula: $C_{10}H_{12}N_8O_4$

Molecular Weight: 308.256

Accurate Mass: 308.098152

Percentage Composition: C 38.96%; H 3.92%; N 36.35%; O 20.76%

Physical Description: Cryst. (H_2O)

Melting Point: Mp 226-229 dec.°

Other Data: Darkens on exposure to air

Aldrich: 26378-8

Sigma: A2768

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

CAS Registry Number: 31364-08-6

Molecular Formula: $C_{16}H_{18}N_8O_7$

Molecular Weight: 434.368

Accurate Mass: 434.129847

Percentage Composition: C 44.24%; H 4.18%; N 25.80%; O 25.78%

Physical Description: Glass

>>Derivative: 2',3'-O-Isopropylidene

Molecular Formula: $C_{13}H_{16}N_8O_4$

Molecular Weight: 348.321

Accurate Mass: 348.129452

Percentage Composition: C 44.83%; H 4.63%; N 32.17%; O 18.37%

Physical Description: Cryst. (MeOH)

Melting Point: Mp 178-179°

>>Derivative: 5'-Triphosphate

CAS Registry Number: 53696-59-6

Molecular Formula: $C_{10}H_{15}N_8O_{13}P_3$

Molecular Weight: 548.196

Accurate Mass: 547.997148

Percentage Composition: C 21.91%; H 2.76%; N 20.44%; O 37.94%; P 16.95%

Use/Importance: Photoaffinity agent

References:

- Michelson, A.M. *et al.*, *Biochim. Biophys. Acta*, 1964, **91**, 1, (triphosphate, synth)
Holmes, R.E. *et al.*, *J.A.C.S.*, 1965, **87**, 1772, (synth, ir)
Ikehara, M. *et al.*, *Chem. Pharm. Bull.*, 1971, **19**, 104, (derivs)
Freist, W. *et al.*, *Nucleic Acid Chem.*, 1978, **2**, 827-836, (triphosphate)
Houstek, J. *et al.*, *Coll. Czech. Chem. Comm.*, 1979, **44**, 976, (synth, derivs)
Czarnecki, J. *et al.*, *Methods Enzymol.*, 1979, **56**, 642-653, (5'-triphosphate, rev)