>>**Derivative:** 5'-(4,4'-Dimethoxytrityl), 4*N*-benzoyl

CAS Registry Number: 67219-55-0

Molecular Formula: $C_{37}H_{35}N_3O_7$
Molecular Weight: 633.699
Accurate Mass: 633.247502
Percentage Composition: C 70.13%; H 5.57%; N 6.63%; O 17.67%
Use/Importance: Intermed. for synth of oligonucleotides
Biological Use/Importance: Research tool for antiviral and anticancer studies
Melting Point: Mp 119°

>>**Derivative:** 3*N*-Me
Synonym(s): 2'-Deoxy-3-methylcytidine, 9CI

CAS Registry Number: 5040-21-1

Molecular Formula: $C_{10}H_{15}N_3O_4$
Molecular Weight: 241.246
Accurate Mass: 241.106257
Percentage Composition: C 49.79%; H 6.27%; N 17.42%; O 26.53%
Biological Source: Isol. from *Geodia barettii*
Physical Description: Cryst. (MeOH) (as hydrochloride)
Melting Point: Mp 160° (hydrochloride)

>>**Derivative:** 4*N*-Me

CAS Registry Number: 22882-02-6

Molecular Formula: $C_{10}H_{15}N_3O_4$
Molecular Weight: 241.246
Accurate Mass: 241.106257
Percentage Composition: C 49.79%; H 6.27%; N 17.42%; O 26.53%
Physical Description: Cryst. (EtOAc)
Melting Point: Mp 160-162°

>>**Derivative:** 4*N*-Et

CAS Registry Number: 70465-61-1

Molecular Formula: $C_{11}H_{17}N_3O_4$
Molecular Weight: 255.273
Accurate Mass: 255.121907
Percentage Composition: C 51.76%; H 6.71%; N 16.46%; O 25.07%
Physical Description: Cryst. (EtOAc)
Melting Point: Mp 58-60°

>>**Derivative:** 4*N*-(4-Methylphenyl)

CAS Registry Number: 177949-56-3

Molecular Formula: $C_{16}H_{19}N_3O_4$
Molecular Weight: 317.344
Accurate Mass: 317.137557
Percentage Composition: C 60.56%; H 6.03%; N 13.24%; O 20.17%
Physical Description: Cryst. (EtOAc)
Melting Point: Mp 42-44°

References: