

Product Information

Protected nucleoside *N4-Ac-3',5'-TIPDS-Cr*

Cat. No.: X24-08-LY015

Size: 25 mg; 50 mg; 100 mg; 250 mg; 500 mg

CAS Number: 85335-73-5

Compound CID: 13831524

Synonym: 85335-73-5; 3',5'-TIPS-*N*-Ac-Cytidine;

Cytidine, *N*-acetyl-3',5'-*O*-[1,1,3,3-tetrakis(1-methylethyl)-1,3-disiloxanediy]-; *N*

-(1-((6*aR*,8*R*,9*R*,9*aS*

)-9-Hydroxy-2,2,4,4-tetraisopropyltetrah

ydro-6*H*

-furo[3,2-*f*][1,3,5,2,4]trioxadisilocin-8-yl)-2-oxo-1,2-dihydropyrimidin-4-yl]acetamide;

N-[1-[(6*aR*,8*R*,9*R*,9*aS*

)-9-Hydroxy-2,2,4,4-tetra

(propan-2-yl)-6*a*,8,9,9*a*-tetrahydro-6*H*

-furo[3,2-*f*][1,3,5,2,4]trioxadisilocin-8-yl]-2-oxo-pyrimidin-4-yl]acetamide; *N*-{1-[(6*aR*

,8*R*,9*R*,9*aS*

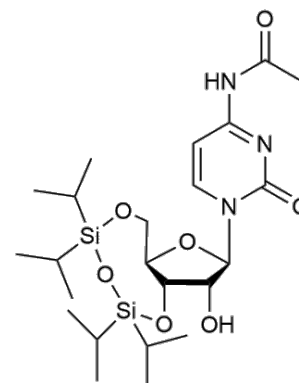
)-9-Hydroxy-2,2,4,4-tetrakis(pro

pan-2-yl)-hexahydro-2*H*

-furo[3,2-*f*][1,3,5,2,4]trioxadisilocin-8-yl]-2-oxo-1,2-dihydropyrimidin-4-yl]acetamide;

N-Acetyl-3',5'-*O*-(1,1,3,3-tetraisopropyl-1,3-disiloxanediy)cytidine; *N*

4-Acetyl-3',5'-*O*-(tetraisopropylidisiloxane-1,3-diyl)-cytidine



This product is for research use only and is not intended for diagnostic use.

Product Information

Description	<i>N4-Ac-3',5'-TIPDS-Cr</i> is a protected nucleotide derivative with a molecular structure comprising a siloxane dimer of 1,3-dimethylsilyl and cytosine.
Molecular Weight	527.76
Molecular Formula	C ₂₃ H ₄₁ N ₃ O ₇ Si ₂
IUPAC Name	<i>N</i> -[1-[(6 <i>aR</i> ,8 <i>R</i> ,9 <i>R</i> ,9 <i>aS</i>)-9-Hydroxy-2,2,4,4-tetra(propan-2-yl)-6 <i>a</i> ,8,9,9 <i>a</i> -tetrahydro-6 <i>H</i> -furo[3,2- <i>f</i>][1,3,5,2,4]trioxadisilocin-8-yl]-2-oxopyrimidin-4-yl]acetamide

InChI	InChI=1S/C23H41N3O7Si2/c1-13(2)34(14(3)4)30-12-18-21(32-35(33-34,15(5)6)16(7)8)20(28)22(31-18)26-11-10-19(24-17(9)27)25-23(26)29/h10-11,13-16,18,20-22,28H,12H2,1-9H3,(H,24,25,27,29)/t18-,20-,21-,22-/m1/s1
InChI Key	DQGHXFWTOQROJQ-ZHHKINOHSA-N
Canonical SMILES	CC(C)[Si]1(OCC2C(C(C(O2)N3C=CC(=NC3=O)NC(=O)C)O)O[Si](O1)(C(C)C)C(C)C(C)C
Isomeric SMILES	CC(C)[Si]1(OC[C@@H]2[C@H]([C@H]([C@@H](O2)N3C=CC(=NC3=O)NC(=O)C)O)O[Si](O1)(C(C)C)C(C)C(C)C
Form	Powder
Purity	≥95%
Applications	<i>N</i> 4-Ac-3',5'-TIPDS-Cr can be used to label and track the synthesis and degradation processes of nucleic acid molecules.
Storage	Store at -20°C.

Safety Information

Personal Protective Equipment	Gloves, eyeshields, N95 mask
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