CD BioGlyco

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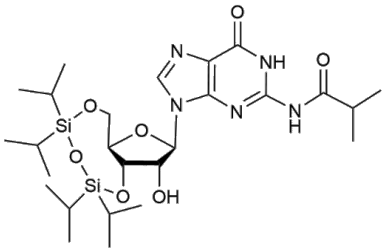
Product Information

Protected nucleoside *N*2-iBu-3',5'-TIPDS-Gr



Cat. No.: X24-08-LY014

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

CAS Number: 87865-78-9

Compound CID: 135507703

Synonym: 87865-78-9; *N*

2-Isobutyryl-3',5'-o-(1,1,3,3-tetraisopropyl-1,3-disiloxanediyl)guanosine; *N*-(9-((6*a*R

,8*R*,9*R*,9*a*S

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

ydro-6*H*

-furo[3,2-f][1,3,5,2,4]trioxadisilocin-8-yl)-6-*oxo*-6,9-dihydro-1*H*

-purin-2-yl)isobutyramide; *N*-[9-[(6*a*R,8*R*,9*R*,9*a*S

)-9-hydroxy-2,2,4,4-tetra(

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

-furo[3,2-f][1,3,5,2,4]trioxadisilocin-8-yl]-6-*oxo*-1*H*-purin-2-yl]-2-methylpropanamide;

N-Isobutyryl-3'-O,5'-*O*-[oxybis(diisopropylsilanediyl)]guanosine; *N*-{9-[(6*a*R,8*R*,9*R*,9

*a*S

)-9-hydroxy-2,2,4,4-tetrakis(prop

an-2-yl)-hexahydro-2*H*

-furo[3,2-f][1,3,5,2,4]trioxadisilocin-8-yl]-6-*oxo*-6,9-dihydro-1*H*

-purin-2-yl}-2-methylpropanamide; *N*2-Isobutyryl-3',5'-*O*

-(tetraisopropyldisiloxane-1,3-diyl)-guanosine; *N*-(2-Methyl-1-*oxo*

-propyl)-3',5'-*O*-[1,1,3,3-tetrakis(1-methylethyl)-1,3-disiloxanediyl]-guanosine; *N*

-{9-[(6*a*R,8*R*,9*R*,9*a*S

)-9-hydroxy-2,2,4,4-tetraisopropyl-

tetrahydro-6*H*

-furo[3,2-f][1,3,5,2,4]trioxadisilocin-8-yl]-6-*oxo*-1*H*-purin-2-yl}-2-methylpropanamide

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

Product Information

Description *N*2-iBu-3',5'-TIPDS-Gr is a modified guanosine molecule with unique properties of the molecular

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	structure.
Molecular Weight	595.84
Molecular Formula	$C_{26}H_{45}N_5O_7Si_2$
IUPAC Name	*N*-[9-[(6*aR*,8*R*,9*R*,9*aS*)-9-Hydroxy-2,2,4,4-tetra(propan-2-yl)-6 a,8,9,9a-tetrahydro-6*H* -furo[3,2-f][1,3,5,2,4]trioxadisilocin-8-yl]-6-*oxo*-1*H*-purin-2-yl]-2-methylpropanamide
InChI	InChI=1S/C26H45N5O7Si2/c1-13(2)23(33)29-26-28-22-19(24(34)30-26)27-12-31(22)25-20(32)21-18(36-25)11-35-39(14(3)4,15(5)6)38-40(37-21,16(7)8)17(9)10/h12-18,20-21,25,32H,11H2,1-10H3,(H2,28,29,30,33,34)/t18-,20-,21-,25-/m1/s1
InChI Key	RYRMXMSXLHPLAT-GUQHISFFSA-N
Canonical SMILES	CC(C)C(=O)NC1=NC2=C(C(=O)N1)N=CN2C3C(C4C(O3)CO[Si](O[Si](O4)(C(C)C)C(C)C)(C(C)C)C(C)C)O
Isomeric SMILES	CC(C)C(=O)NC1=NC2=C(C(=O)N1)N=CN2[C@H]3[C@@H]([C@H]4[C@H](O3)CO[Si](O[Si](O4)(C(C)C)C(C)C)(C(C)C)C(C)C)O
Form	White, off-white to faint yellow powder
Purity	≥98%, determined by HPLC.
Applications	*N*2-iBu-3',5'-TIPDS-Gr can be used as a research tool for gene expression and transcriptional regulation, helping to reveal cell signaling pathways and disease mechanisms.
Storage	Store at 4°C.

Safety Information

Personal Protective Equipment	Gloves, eyeshields, N95 mask

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