

Product Information

N-[9-((2*R*, 3*R*, 4*S*, 5*R*)-4-((*tert*-Butyldimethylsilyloxy)-3-hydroxy-5-(hydroxymethyl)tetrahydrofuran-2-yl)-6-oxo-6,9-dihydro-3*H*-purin-2-yl)]isobutyramide

Cat. No.: X24-03-LY009

Size: 50 mg; 100 mg; 250 mg; 500 mg; 1 g

CAS Number: 1237684-87-5

PubChem CID: 156599791

Synonym: 1237684-87-5; *N*-[9-[(2*R*, 3*R*, 4*S*,

5*R*)-4-[(*tert*

-Butyl(dimethyl)sil

yl]oxy-3-hydroxy-5-(hydroxymethyl)

oxolan-2-yl]-6-oxo-1*H*-purin-2-yl]-2-methylpropanamide; *N*-[9-[(2*R*, 3*R*, 4*S*,

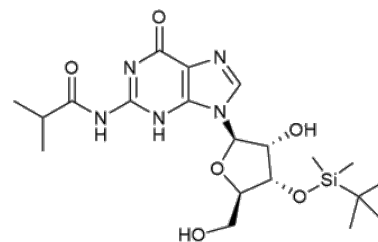
5*R*)-4-[(*tert*

-Butyl(dimethyl)sil

yl]oxy-3-hydroxy-5-(hydroxymethyl)

oxolan-2-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	<i>N</i> -[9-((2 <i>R</i> , 3 <i>R</i> , 4 <i>S</i> , 5 <i>R</i>)-4-((<i>tert</i> -Butyldimethylsilyloxy)-3-hydroxy-5-(hydroxymethyl)tetrahydrofuran-2-yl)-6-oxo-6,9-dihydro-3 <i>H</i> -purin-2-yl)]isobutyramide is a nucleoside analog that contains adenine and ribose residues in its structure and is highly biologically active.
Molecular Weight	467.59
Molecular Formula	C ₂₀ H ₃₃ N ₅ O ₆ Si
IUPAC Name	<i>N</i> -[9-[(2 <i>R</i> , 3 <i>R</i> , 4 <i>S</i> , 5 <i>R</i>)-4-[(<i>tert</i> -Butyl(dimethyl)silyl]oxy-3-hydroxy-5-(hydroxymethyl)oxolan-2-yl]-6-oxo-1 <i>H</i> -purin-2-yl]-2-methylpropanamide
InChI	InChI=1S/C20H33N5O6Si/c1-10(2)16(28)23-19-22-15-12(17(29)24-19)21-9-25(15)18-13(27)14(11(

8-26)30-18)31-32(6, 7)20(3, 4)5/h9-11, 13-14, 18, 26-27H, 8H2, 1-7H3, (H2, 22, 23, 24, 28, 29)/t11-, 13-, 14-, 18-/m1/s1

InChI Key	MCKWRFWFUTWNLD-XWXWGSFUSA-N
Canonical SMILES	<chem>CC(C)C(=O)NC1=NC2=C(C(=O)N1)N=CN2C3C(C(C(O3)CO)O[Si](C)(C)C(C)(C)C)O</chem>
Isomeric SMILES	<chem>CC(C)C(=O)NC1=NC2=C(C(=O)N1)N=CN2[C@H]3[C@@H]([C@@H]([C@H](O3)CO)O[Si](C)(C)C(C)(C)C)O</chem>
Form	White to off-white solid
Purity	≥98%
Applications	<i>N</i> -(9-((2 <i>R</i> , 3 <i>R</i> , 4 <i>S</i> , 5 <i>R</i>)-4-((<i>tert</i> -Butyldimethylsilyl)oxy)-3-hydroxy-5-(hydroxymethyl)tetrahydrofuran-2-yl)-6-oxo-6, 9-dihydro-3 <i>H</i> -purin-2-yl)isobutyramide can be used as a precursor to antiviral drugs for the synthesis of more complex drug molecules.
Storage	Store at -20°C.

Safety Information

Personal Protective Equipment	Gloves, eyeshields, N95 mask
Hazard Statements	H302-H315-H319-H335